X

# PROGRESS REPORT

OF

# FOREST ADMINISTRATION

IN THE

# PUNJAB

FOR

## 1889-1890.

**Price Re. 1.**

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Proceedings of the Hon'ble the Lieutenant-Governor of the Punjab, in the Forest Department, No. 319, dated 21st August 1890.

READ—

The Progress Report on the Forest Administration of the Punjab for the year 1889-90, submitted by the Conservator of Forests with his letter No. 967 of 28th July 1890.

REMARKS.—The revenue of the Forest Department during the year amounted to Rs. 9,21,713 and the expenditure to Rs. 6,45,855. There was thus a surplus of Rs. 2,75,858, which is considerably less than that of the exceptional year 1888-89. The Conservator, however, explains that a large amount of fuel timber made over during the year to the North-Western Railway was not paid for until after the year had closed. On the other hand, some revenue from timber is said to have been "anticipated." This expression apparently means that a quantity of sleepers in Kángra and Chamba were sold before the usual time, and that the amount available for sale in the current year has been reduced to a corresponding degree. The operation amounts rather to a depletion of stock than to an anticipation of revenue. On the whole, the financial result of the year's working may be pronounced fairly satisfactory.

2. During the year about a lakh of acres were gazetted as reserved forest. About 93,000 acres out of this area form the main portion of the Kála-Chitta Hills in the Ráwalpindi District which was formerly classified as protected forest. The only other important reservation was that of a block of about 8,400 acres on the Sohág and Pára Canal. In protected forests with the exception of the transfer of the Kála-Chitta Hills to the category of reserves there were no important changes, and the area of unclassed forests also remained without appreciable alteration.

3. At present there are no forest settlements in progress which involve special expenditure. Since the close of the year orders have been passed in regard to the settlements of the Khárián Rakhs in Gujrát and of the military rakhs near Lahore. As soon as a few formal proceedings have been completed these areas will be gazetted as reserves. The forest settlements connected with the Kángra District are still under consideration, but the Lieutenant-Governor has recently laid down the principles which will in future regulate the administration of the reserves and Government waste in the Montgomery Bár lands.

4. Towards the end of the year the Working Plans Division was resuscitated and the plan for Kalesar Forest revised and completed. The Working Plan of the Bashahr Forests has now been taken in hand. Progress has also been made in other directions, but the Provincial establishment is still short-handed owing to the number of officers on deputation or special duty.

5. There is a gratifying decrease in the number of forest offences which only numbered 1,106 during the year. The decrease during the last three years amounts to more than 34 per cent. of the present total. At the same time the percentage of convictions has increased and now stands at 78·5, so that practically four trials out of five resulted in the punishment of the accused. There were 880 cases compounded, and the average composition was about three rupees and five annas. The Lieutenant-Governor trusts that the Conservator will continue to examine carefully the Divisional Registers of compounded cases, so as to guard this useful system from all danger of abuse.

6. The year was most disastrous in regard to forest fires. Nearly 60,000 acres were burnt in the two Divisions of Ráwalpindi and Hazára, and more than 20,000 acres shared the same fate in the leased forests of Bashahr. The Conservator states that the majority of the fires in the North-West Punjab are attributed to incendiarism, but it does not appear upon

what evidence. Apparently also the term incendiarism is applied indiscriminately both to wilful and malicious mischief and to the firing of grass as an ordinary incident of pastoral economy with no deliberate intention of doing damage to forest produce, though not without knowledge that such damage may probably be done. In the latter sense the fires in Bashahr appear to have been incendiary. But whether the fires be due to malice or merely to rashness and negligence they are equally destructive, and His Honor is willing to consider carefully any measures of prevention which the Conservator may recommend for adoption. Sections 25 and 32 of the Forest Act already supply penal provisions in regard to reserved and protected forests, while the unclassed forests of Murree and Kahuta are dealt with in the Notification quoted in the margin. The Conservator, however, would prefer to proceed by a vigorous application of the rules of 1855 and 1856, but the exact nature of his recommendations is not clear. The Lieutenant-Governor would be glad if Mr. Whittall would make a separate reference upon the subject as soon as he is in a position to do so.

No. 335 of 24th September 1889.

7. The Conservator has now revised his table of the areas closed against grazing in the manner desired by the Government of India. The form, however, seems capable of still further improvement by the entry of the total area of each species of forest included in each Division. Comparison would then be possible between the area available for grazing and the area in which grazing is wholly or partially forbidden. At present no such comparison can be made without a laborious compilation from several different statements. If at the same time the figures were given in square miles or in thousands of acres, the size of the form would be reduced.

8. The Conservator's remarks as to natural reproduction are interesting. The difference between Hazára and Chamba as to reproduction of the spruce and silver forest requires further investigation. Similarly, it will be perhaps better to wait for a longer experience as to the ultimate results of reproduction in the Montgomery reserves. The Lieutenant-Governor has, however, recently decided to allow the experimental exclusion of browsing animals even from unreserved areas when cut over in the Montgomery Bár. As to Jhelum, the Conservator must, in His Honor's opinion, be in error in thinking that the people are well off for grazing in their private lands. This is not the case generally, and is certainly not the case in the country near the Salt Range.

9. The operations for artificial production do not call for much remark. Since the year closed plans have been sanctioned for the improvement of the irrigation in Changa Manga. Some attempt has been made to remove inferior species of trees from the forests in Chamba and Kulu, and among exotic trees the Eucalypti and the Spanish chesnut continue to do well. The cork oak might perhaps be worth a trial.

10. Considerable progress has been made in introducing order and system into the forest arrangements of the Simla Hill States. The Rája of Náhan has large and enlightened views as to forest conservancy, and is always willing to adopt approved methods of procedure. Under the guidance of the Deputy Commissioner of Simla and Mr. McIntire many of the other Hill Chiefs have also displayed readiness to adopt simple and inexpensive measures of conservancy: The Patiála State has recently resolved to undertake a forest settlement and has borrowed the services of a British officer to assist.

11. The acknowledgments of the Lieutenant-Governor are due to Mr. Whittall for his careful management of the Department and for the business-like report which he has submitted.

ORDER.—Ordered that the above Remarks be printed and published as usual with the Report and in the *Punjab Government Gazette.*

Also that they be forwarded with the Report to the Government of India in the Department of Revenue and Agriculture.

By order of the Hon'ble the Lieutenant-Governor.

R. G. THOMSON,

*Offg. Revenue Secretary to Government, Punjab.*

Punjab Government Press, Lahore.—23-8-90—418.

No. 919-F., dated Simla, the 27th October 1890.

From—SIR E. C. BUCK, KT., Secretary to the Government of India, Revenue and Agricultural Department,

To—The Revenue Secretary to the Government of the Punjab.

I AM directed to acknowledge the receipt of your letter No. 350, dated the 21st August last, submitting the Annual Report of Forest Administration in the Punjab for 1889-90, together with a review thereof by His Honour the Lieutenant-Governor, and to express the satisfaction of the Government of India that the Forest Report of the Punjab continues to be submitted in advance of the date fixed for its submission.

2. The different classes of Forests under the control of the Department at the close of the year, together with the alterations of areas made during the year, are exhibited in the following statement:—

| Class of Forests. | At commencement of year. | Added. | Excluded. | At close of year. | Proportion of Forests to whole area of Province (106,613 square miles). |
|---|---|---|---|---|---|
| | Sq. miles. | Sq. miles. | Sq. miles. | Sq. miles. | Per cent. |
| Reserved ... | 1,215 | 159 | 1 | 1,373 | 1·3 |
| Protected ... | 504 | ... | 146 | 358 | 0·3 |
| Unclassed ... | 3,915 | 7 | 2 | *3,920 | 3·7 |
| Total ... | 5,634 | 166 | 149 | 5,651 | 5·3 |
| Leased (Reserves) ... | 321 | ... | ... | †321 | 0·3 |
| GRAND TOTAL ... | 5,955 | 166 | 149 | 5,972 | 5·6 |

* Include 14 square miles in Chamba and 241 square miles in Bashahr.
† Comprise 159 " " " 162 " " "

The additions to the area of Reserves consisted of 146 square miles in the Kala-Chitta Hills of the Rawalpindi District, comprising forest hitherto Protected, and 13 square miles taken up on the Sohág and Pára Canal, in the Montgomery District, in view of the possible extension of irrigated plantations. The question of further reservations with a similar object on the Chenab Canal, to which reference was made in paragraph 2 of His Honour the Lieutenant-Governor's review of the Report for 1888-1889, was still unsettled at the close of the year.

3. The Forest Settlements of the Kangra District, which also include those of Kulu and Shahpur-Kandi, are still under consideration. The delay in the issue of final orders regarding these settlements was commented upon in paragraph 3 of my letter No. 1271-F., dated the 13th December 1889, conveying the views of the Government of India on Forest Administration in the Punjab for the year 1888-89, and I am again to express a hope that these forests, some of which have now been under settlement for more than ten years, and which, it is understood, are being managed in accordance with the orders passed by the Settlement Officer, may be placed on a sound and legal footing under the Forest Act.

It is stated, in paragraph 3 of His Honour's Resolution on the present Report, that principles have been laid down which will in future regulate the administration of the Reserves and Government waste in the Montgomery *bár* lands. This subject is being dealt with in separate correspondence with the Government of India.

Preliminary notifications were issued, under Section 4 of the Forest Act, with a view to the reservation of 11,000 acres, chiefly in the Gujrat and Gujranwala Districts. Proposals were also made to demarcate as Reserves some additional 141 square miles of the leased forests of the Bashahr State situated on the drainage systems of the Pabar, Giri, and Rupin rivers.

The Khwarra and Zira forests of the Kohat District were declared Protected, and suitable rules framed for their management, under Chapter IV of

the Forest Act. As these forests, however, have not been placed under the control of the Forest Department, they have not been included in the returns of the year.

4. The statement of the Conservator, that the demarcation of such of the Unclassed Forests as it is intended to constitute permanent forest estates, is in no case neglected, removes the apprehension felt by the Government of India after perusing the remarks on demarcation in the Report for 1887-88. Boundary lines aggregating 350 miles were marked off during the year, while repairs extended over 381 miles. Some nine thousand pillars were either newly built or repaired.

5. Surveys were continued by a party of the Imperial Survey Department in the Kangra District, and the Imperial Forest Survey Branch extended its work in the leased forests of the Bashahr State, but the actual progress made is not reported.

The Working-Plans Branch remained in abeyance till near the close of the year under review, when the revision of the Kalesar Plan was, it is reported, to have been effected, though not it is noticed, until the fourth year after its submission. The proposals dealing with the Pangi Forests, as well as with those in Murree and Kahuta, which, it has been stated, were framed some years back, had still, at the close of the year, to be submitted for the orders of His Honour the Lieutenant-Governor, and there would seem to have been uncalled-for delay in forwarding these plans for the scrutiny of the Inspector General of Forests with a view to their being placed before the Local Government. It is noticed with satisfaction that the forests of the Bashahr State are now being dealt with by the special Working-Plans Officer, and the Government of India, after a perusal of the correspondence recorded as Nos. 27-37 (A) in the Punjab Proceedings for July 1890, desire specially to urge the pressing need for similar work being undertaken in the Kulu Forests. The opinion of the local Forest Officer, which is borne out by the remarks regarding natural reproduction contained in paragraph 23 of the Report, that the fellings of deodar have exceeded the possible yield and must for the present be considerably reduced, ought to be justified by an exhaustive valuation of the forests; and, as soon as the orders, referred to in paragraph 3, disposing of the Settlement, have issued, and the necessary maps or tracings are procurable, there should be no further obstacle to the preparation of a comprehensive Working-Plan. In this connection, the large area of forests in the Punjab for which Working-Plans are still required should, as previously indicated, be steadily kept in view.

The explanations given in paragraph 45 of the Report show that the provisions of existing Working-Plans have received proper consideration and, with few exceptions, have been complied with.

6. Under the head of communications and buildings, Rs. 11,845 were expended, of which Rs. 5,638 were on account of new works and Rs. 6,207 for repairs.

7. The decrease in the number of forest offences and the higher percentage of convictions obtained have been suitably commented upon by His Honour the Lieutenant-Governor. The following comparative statement shows the number of breaches of rules compounded or prosecuted, and the percentage of convictions obtained, in the past two years:—

| Year. | Number of New Cases. | | | Proportion of Convictions to total number of Cases decided by the Courts. |
|---|---|---|---|---|
| | Taken into Court. | Compounded. | Total. | |
| | | | | Per cent. |
| 1889-90 ... ... | 1,106 | 880 | 1,986 | 78 |
| 1888-89 ... ... | 1,348 | 998 | 2,346 | 68 |
| Increase or decrease in 1889-90. | —242 | —118 | —360 | +10 |

The number of cattle impounded was fewer than in 1888-89 by 26 per cent. This decrease, which has long been desired, is, if it may be accepted that protection was not less efficient than in previous years, satisfactory.

8. The year under review was more than usually disastrous as regards both the number and the extent of forest fires. Of the specially protected areas, nearly 60,000 acres, chiefly in the Hazara and Rawalpindi Divisions, were entered by fire: Fires also passed over more than 38,000 acres of forests for the protection of which no special measures are taken. The Government of India are glad to observe that His Honour the Lieutenant-Governor has expressed a willingness to consider special measures for the prevention of these fires, which, as the Conservator notes periodically, devastate the forests in the north-west portion of the Province. I am again to point out that both the extension of fire-lines and the institution of protective measures, where none are at present attempted, seem desirable.

9. The statement given in paragraph 22 of the Report shows clearly the areas closed against grazing, and, in the opinion of the Government of India, may, with advantage, be further elaborated in the direction indicated by the Lieutenant-Governor.

10. The detailed and interesting remarks on natural regeneration given in paragraphs 23 and 24 of the Report call for special notice.

In the higher hills, the reproduction of deodar is generally plentiful, and the statement made in the following extract regarding the "absence" of reproduction in certain forests in Kulu is believed to be open to question:—

"It is a regrettable fact that almost all of the most valuable deodar forests in Kulu—that is to say, those in proximity to lines of export—have been in the past very much over-exploited, and that consequently natural reproduction in them may best be described as being conspicuous by its absence."

Presuming that these remarks apply to demarcated areas which it is proposed to maintain permanently as forest, a further inquiry should be made into the statement, and, if it is found to be correct, adequate precautions should be taken, under the provisions of a Working-Plan, against the continuance of a system which points to the extermination of valuable deodar forests.

The conditions favourable to the reproduction of spruce and silver-fir, and more particularly of the latter in Hazara, have as yet been insufficiently studied. It is only necessary to take sufficient precautions against fires and excessive grazing to insure wherever there is sufficient light, a prolific reproduction of both *Pinus excelsa* and *P. longifolia* at the respective elevations at which they thrive. The greater facility with which northern and eastern as compared with southern and western aspects clothe themselves, is not, it is believed, at any rate at some elevations, so marked in the case of these species as in that of others of the Himalayan forest trees.

In the lower hills it should be sought to cover the soil as quickly as possible, and to this end *sanatta* (*Dodonæa viscosa*), owing to the facility with which it reproduces itself both from coppice and seed, is a valuable auxiliary species. Such growth will slowly be replaced by more valuable hard woods in course of time, provided that browsing and over-grazing, such as for instance is reported to occur in the Kala-Chitta Hills, be checked.

In the plains of the Punjab, reproduction by means of root-suckers and coppice-shoots must be the mainstay of the forest growth, and it appears doubtful whether, where protection is desirable, the exclusion of browsing animals only will suffice in those unreserved areas of the Montgomery *bár* in which fellings have been recently made. Cattle, such as roam over the *bár* lands in a half-starved condition, browse within their reach almost as disastrously as camels or goats.

The experiment of obtaining a growth of root-suckers by trenching round *jhand* (*Prosopis spicigera*) stools should, it is considered, be further extended, and, in view of the extensive areas which may have to be treated by this method, the acreage cost should be reduced within the narrowest limits consistent with the aim to be attained. The outlay of Rs. 10 or 12 an acre appears unreasonably high for such work.

11. The net addition to Regular Plantations, after deducting failures, was 70 acres only; and, similarly, 632 acres were added to the area previously treated under Cultural Operations.

The statement in paragraph 23 of the Report, to the effect that attempts at artificial reproduction have not been successful for some years in Kulu, seems to require qualification when compared with Form No. 52 for the past four years. Of 353 acres planted, 174 only have been written off as failures, leaving a balance of more than 50 per cent. stocked.

Weedings and thinnings received a certain amount of attention, but, in this direction, greater efforts should be made to carry out the provisions of Working-Plans.

12. The outturn of the forests, compared with that of the previous year, is exhibited in the following statement:—

| Description. | Extracted by Government Agency. | Extracted by Purchasers. | Extracted on Free Grants. | Extracted by Right-holders. | Total. |
|---|---|---|---|---|---|
| | Cubic feet. | Cubic feet. | Cubic feet. | Cubic feet. | Cubic feet. |
| Timber ... ... | 696,269 | 291,820 | 687,668 | 1,169,692 | 2,845,449 |
| Firewood ... Charcoal ... | 1,909,840 | 2,905,973 | 71,632 | 19,284,567 | 24,172,012 |
| Total in 1889-90 ... | 2,606,109 | 3,197,793 | 759,300 | 20,454,259 | 27,017,461 |
| „ 1888-89 ... | 2,444,340 | 6,683,486 | 751,056 | 33,159,980 | 43,038,862 |
| Increase or decrease in 1889-90. | +161,769 | —3,485,693 | +8,244 | —12,705,721 | —16,021,401 |

| Description. | Extracted by Government Agency. | Extracted by Purchasers. | Extracted on Free Grants. | Extracted by Right-holders. | Total. |
|---|---|---|---|---|---|
| *Bamboos.* | No. | No. | No. | No. | No. |
| Total in 1889-90 ... | 670,610 | 9,911 | ... | ... | 680,521 |
| „ 1888-89 ... | 688,256 | 7,004 | ... | ... | 695,260 |
| Increase or decrease in 1889-90. | —17,646 | +2,907 | ... | ... | —14,739 |
| *Minor Produce.* | Value in Rs. | Value in Rs. | Value in Rs. | Value in Rs. | Value in Rs. |
| In 1889-90 ... | 4,083 | 2,08,295 | 2,174 | 2,19,131 | 4,33,683 |
| „ 1888-89 ... | 938 | 2,18,767 | 3,631 | 4,58,087 | 6,81,423 |
| Increase or decrease in 1889-90 ... | +3,145 | —10,472 | —1,457 | —2,38,956 | —2,47,740 |

The Conservator explains that the comparison between the year under review and the previous year is vitiated, firstly, by the outturn of fuel being for the first time given in cubic feet solid instead of stacked, and, secondly, by the considerably lower estimated value placed on produce removed by right-holders. In future years these defects will not recur. The decrease in sales to purchasers, and a corresponding increase in the extractions by Government agency, is due to the change of system under which timber is now supplied direct to the railway, instead of through the agency of contractors.

The comparison made in paragraph 42 of the Report, between the outturn of *shisham* (*Dalbergia latifolia*) on the artificially irrigated land of Changa

Manga and on the *sailaba* land of Shaderah, is incomplete owing to the omissions (1) to reduce the stacked fuel to its equivalent solid volume, (2) to add the material previously removed in the form of thinnings from the respective areas felled, and (3) to calculate, from the age of the crop, the *mean annual production*, which alone is capable of being compared. From the information given in the Working-Plans, it would appear that the average mean annual production of wood in the compartments felled in 1889-90 was:—

In Changa Manga ... 76 cubic feet solid per acre per annum.
In Shaderah ... ... 117 " " "

It is possible that the heavy thinnings made in previous years in Changa Manga (these were especially heavy in the compartments felled in 1889-90) probably contributed to the lower production, and with the improved irrigation scheme which has been recently sanctioned for Changa Manga the difference in production as compared with *sailaba* lands will doubtless be further reduced.

13. The financial results, which are almost identical with the average of the previous five years,* compare with those of 1888-89 as follows:—

* Average of previous five years.

| | Rs. |
|---|---|
| Receipts ... | 9,11,050 |
| Charges ... ... | 6,44,372 |
| Surplus ... | 2,67,578 |

| Year. | Receipts. | Charges. | Surplus. | Proportion of Surplus to gross Revenue. |
|---|---|---|---|---|
| | Rs. | Rs. | Rs. | Per cent. |
| 1889-90 ... ... | 9,21,713 | 6,45,855 | 2,75,858 | 30 |
| 1888-89 ... ... | 10,45,768 | 5,93,885 | 4,51,883 | 43 |
| Increase or decrease in 1889-90... | —1,24,055 | +51,970 | —1,76,025 | —13 |

14. The progress that has been made during the past four years in inducing the Chiefs of the Simla Hill States to demarcate their forests and manage them with some system, has been watched with considerable satisfaction, and the gratification of the Government of India at the results obtained was conveyed in my letter No. 675-F., dated 6th July 1889, to the address of the Junior Secretary to the Punjab Government. These results reflect credit on Colonel Grey, the Commissioner of the Delhi Division, who is understood to have given the main impulse to these reforms, and on the local officers who have been engaged in carrying them out. His Excellency in Council trusts that the special measures which are now being readily adopted in the different States may be accepted as an indication that the benefits of a continuous and sound Forest policy are being felt and appreciated by the Native Chiefs of the Punjab.

15. There is nothing to add to what has already been recorded with regard to the cultivation of exotics. The cork-oak might be tried as suggested, and would probably thrive at a suitable elevation; but it seems doubtful whether much would be gained by its introduction.

16. The Government of India agree with His Honour the Lieutenant-Governor in considering that the year's working has been fairly satisfactory, and His Excellency in Council has observed with pleasure that Mr. Whittall, the Conservator, has deserved special commendation.

*Appendix showing discrepancies noticed in the Punjab Forest Administration Report for 1889-90.*

*Paragraph 16 of Report.*—The total of the figures given under "Nature of Offences" comes to 121, and not 129 as entered.

*Paragraphs 42 and 45 of Report.*—In the statement in paragraph 42, it is shown that clearance fellings were carried out over an area of 414 acres in the Changa Manga Reserve, whereas in paragraph 45 it is said that the total area felled over in this Reserve was only 412·2 acres.

*Paragraph 43 of Report.*—"Rs. 6,029," in the second-last line, should be "Rs. 6,049."

*Paragraph 45 of Report.*—"175·6 acres," in the sixth-last line of the page, should be "177·6 acres."

*Paragraph 52 of Report.*—"Rs. 26,067," in the fifth-last line of the page should be "Rs. 26,069."

*Form No. 56.*—In the "Abstract," on page xxvii, against "Received from previous launchings" under "Receipts," "388,580 c. ft." should be "387,580 c. ft." to agree with the corresponding entry on page xxvi; and, similarly, against "Total True Receipts," "1,194,320 c. ft." should be "1,193,320 c. ft." On page xxvii, against "Despatched from forests and from depôts, but not yet received" under "Disposals," "161,653 c. ft." should be "160,653 c. ft." to agree with the corresponding entry on page xxv; and similarly, against "Total True Disposals," "959,279 c. ft." should be "9,58,279 c. ft." On page xxviii, against "Received by transfer from other Depôts" under "Receipts," "599,181 c. ft." should be "600,181 c. ft." to agree with the corresponding entry on page xxvii; and, similarly, against "Total Cross Receipts," "618,070 c. ft." should be "619,070 c. ft." On page xxviii, against "Transferred to other Depôts" under "Disposals," "5,99,181 c. ft." should be "600,181 c. ft." to agree with the corresponding entry on page xxv; and, similarly, against "Total Cross Disposals," "602,763 c. ft." should be "603,763 c. ft."



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# No. 967

## FOREST DEPARTMENT, PUNJAB.

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FROM

R. H. C. WHITTALL, Esquire,

Conservator of Forests,

PUNJAB,

To

THE REVENUE SECRETARY TO GOVERNMENT,

PUNJAB;

*Dated Lahore, the 28th July* 1890.

SIR,

I HAVE the honor to submit the Annual Administration Report of the Punjab Forest Department for the year 1889-90.

I have the honor to be,

SIR,

Your most obedient servant,

R. H. C. WHITTALL,

*Conservator of Forests, Punjab.*

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B.—Imports of timber and bamboos.
C.—Abstract of drift operations during the year.

# PROGRESS REPORT

OF

# FOREST ADMINISTRATION IN THE PUNJAB

FOR THE YEAR 1889-90,

## CHAPTER I.—AREAS AND BOUNDARIES.

### I.—AREAS.

Changes during the year.

The abstract below shows the changes that have taken place during the past year in the areas on the books of the Forest Department :—

| | At the commencement of the year. | Added. | Excluded. | At the close of the year. |
|---|---|---|---|---|
| | Acres. | Acres. | Acres. | Acres. |
| Reserves ... | 9,82,749 | 1,02,201 | 504 | 10,84,446 |
| Protected ... | 3,22,600 | ... | 93,391 | 2,29,209 |
| Unclassed ... | 25,05,598 | 4,766 | 1,357 | 25,09,007 |
| TOTAL ... | 38,10,947 | 1,06,967 | 95,252 | 38,22,662 |

that is, there has been an increase of 11,715 acres on the total area of all classes since the commencement of the year.

Changes by Divisions.

2. The changes in the various classes of Forest exhibited in Form 49 are as follows:—

(*a*) *Reserved Forests.*

*Rawalpindi.*—During this year the Kalachitta Protected Forest of 93,194 acres, was, by Government Notification No. 24 of the 21st of January 1890, created a Reserve; in addition to this 616 acres were added and 209 acres excluded from various forests by the correction of areas, in accordance with the most recent examination of Settlement Records.

*Kangra.*—Five acres excluded by river action from the Mallanwal Reserve.

*Jhelum.*—By river action 143 acres were excluded from Pira Ghaib Forest, 63 from the Saila Forest and 10 acres added to Sagarpur; also 4 acres of Zemindars' lands were excluded from the Tilla Reserve under the authority of Punjab Government Notification No. 312 of the 4th of September 1889.

*Chenab.*—In this Division river action has accounted for the addition of 2 acres to the Bohlolpur and the exclusion of 19, 17 and 44 acres from the Kotli Gohan, Nath and Pindi Tatar Reserves, respectively. In addition to this one acre was purchased and added to the Dhul Reserve by the Forest Settlement Officer under the terms of the Land Acquisition Act.

*Montgomery.*—Here 8,378 acres in the locality of the Sohag and Para Canal were, by Punjab Government Notification No. 500, dated the 2nd of October 1889, gazetted as Reserved Forest in pursuance of the policy referred to in paragraph 2 of the Punjab Government Review of the Annual Forest Report of 1888-89.

*(b) Protected Forests.*

*Rawalpindi.*—In this Division 93,194 acres were, as above noted, transferred to Reserves; also 26 acres and 3 acres were respectively excluded from Bagla and Khud Forests by the correction of errors in the Settlement papers.

*Chenab.*—168 acres were permanently transferred to the Irrigation Department from the Hafizabad Protected Forests under the authority of Government No. 4 S. of 28th May 1889.

*(c) Unclassed Forests.*

*Kulu.*—An area of 1 acre has been acquired by exchange, and added to Borsu Proposed Reserved Forest, and 94 acres were given up on cultivating leases from the 610 square miles of Proposed Protected undemarcated Forests.

Owing to the non-issue of orders on the Kulu Forest Settlement, the whole of the Kulu Forests are this year again shewn as unclassed.

The total area shewn by Form 49 as on the books of the Department is 1,158 square miles, of which 548 square miles are demarcated and 610 square miles undemarcated. It seems desirable to note that both these figures are merely rough approximations and will be considerably modified as the Survey progresses The undemarcated area of 610 square miles was arrived at by the deduction of the total area demarcated, plus the area under cultivation, from the area of the whole sub-Division; and therefore includes all roads, village and house sites, common grazing grounds, &c., and in addition a large percentage consists, according to paragraph 19 of the Kulu Forest Settlement Report, of "bare grassy slopes; rock and perpetual snow."

*Bashahr.*—Sixteen acres were granted for cultivation under the terms of the lease, in various plots from Kilba, Kailas, Chini, Neogli and Taranda units.

*Chenab.*—River action increased the area of the Chenab Belas by 389 acres, of which 365 acres were added to the Ranmal Forest. To the same cause also is due the exclusion of 37 and 118 acres from the Chenab and Jhelum Belas, respectively.

*Lahore.*—Under the sanction of the Punjab Government letter No. 167, dated 6th April 1889, to the Financial Commissioner, 250 acres from the Aulakh Forest were transferred to the District authorities and subsequently leased to Subadar Ganda Singh, and an error in last year's returns causes the exclusion of a further area of 400 acres from the Chunian rakhs.

*Mooltan.*—13 acres of the Bakaini Forest in the Muzaffargarh District were transferred to the Irrigation Department under the authority quoted above in the case of the transfer from the Chenab Protected Forests.

In the Muzaffargarh District river action has accounted for the addition of 3,803 acres to rakh Isanwala, and of 573 to rakh Dhaka; the same action is also responsible for the exclusion of 22 acres from rakh Jhelarian.

*Montgomery.*—Under the sanction of the Financial Commissioner's No. 1892, dated 22nd March 1889, and of the Commissioner and Superintendent, Lahore Division's Nos. 257 and 258, dated 5th August 1889 and No. 139, dated 2nd May 1889, a total area of 407 acres was leased for cultivation from the unclassed forests of the Chichawatni range.

Forest and Land Revenue settlements.

3. Final orders have been passed during the year on the Kala Chitta Forest Settlement, and the area has been gazetted as a Reserved Forest. Matters have otherwise remained in *statu quo*, that is to say, orders are still awaited on the Kulu, Kangra, Shahpur-Kandi and Gujrat Forest Settlements. There has been no cost during the year to this Department in the matter of Forest Settlements.

The remarks made in clause 2, paragraph 3 of last year's report where it is stated that 11 forests, plus the Pangi forests alone remain for the acceptance of His Highness the Raja of Chamba, have been discovered to be incorrect,

The total number of forests in Chamba is 231. Of these Kalatop was sanctioned in 1868 and Kainthli in 1888, the latter being the only forest, the Settlement of rights of which has been accepted by the Raja himself, since the administration of affairs no longer required a Superintendent.

Punjab Government Nos. 41 of 5th February 1883 and 290 of the 12th June 1883, together covered 182 Forests, examined by Messrs. Pengelly, Moir and Vincent. This leaves the Pangi Forests 43 in number, and 4 of the Dalhousie range still unsettled.

The statement then made in the Annual Report of 1887-88 that 11 of the Forests in the Chamba range, remained unattested, is incorrect. These forests are included in those sent up to Government in Conservator's No. 1233 of 27th September 1882.

*Land Revenue Settlements.*

The examination and correction of the Land Settlement papers in the Jhelum Division which was enjoined in Financial Commissioner's No. 1785 of 23rd March 1888 has made considerable progress during the year under Report, the papers for 41 forests with an aggregate area of 1,06,291 acres have been corrected and similar work is in progress, or about to be undertaken, for a further number of 51 forests, with an area of 2,79,694 acres. In Chenab also, although no forests have been settled during the year, operations are in progress in 28 forests, with a total area of 8,066 acres.

The Revenue Settlement which is in progress in the Lahore District has not yet dealt with any of our forests.

Reservation of new areas.

4. The project for the reservation of the Bucheke Forest in the Montgomery District has, since the close of the year, been dropped, *vide* Punjab Government Notification No. 205 of the 24th of April 1890.

Nothing further has occurred during the year with regard to the project for the reservation under Chapter II of the Forest Act of the rakhs in the Lahore District that have been made over to the Military Department. Since the close of the official year, however, the final Report of the Forest Settlement Officer has reached me through the Financial Commissioner.

The question of the transfer of the Gujrat Reserves from their existing status as Reserves under Section 34 to Reserves under Section 19 of the Forest Act still awaits the issue of the final orders on the Gujrat Forest Settlement Report.

During the year three new proposals were made for the creation of Reserved Forests under Chapter II of the Forest Act; one for the Arbi grass preserve of 30 acres in the Mooltan District; one for 19 Belas, with an area of 4,992 acres in the Gujrat District, and one for a block of 6,371 acres at the tail of the new Chenab Canal in the Gujranwala District. In all these cases Notifications under Section 4 of the Act have been issued.

Mr. Hill's proposal made in 1886 for the reservation under Chapter II of a block of 25,758 acres in the Gujranwala District is still unsettled, and this is also the case with regard to the project for the application of Chapter II to the forests of the Morni Jagir in the Ambala District, on which the first action was taken under Section 38 of the Act.

Both of these last two projects have, however, recently received attention.

Proposals to demarcate 62 forests aggregating 90,450 acres in the Pabar, Rupin and Giri range of the Bashahr Division were submitted to the Superintendent of Hill States, but have not yet been sanctioned as that Officer desires to visit the locality before agreeing to the scheme.

## II.—Boundaries.

Work of the year.

5. The statement of the work done during the year under this head is given below.

During the year under Report, rather more new work was done than was the case last year, but as stated in paragraph 5 of the Report for 1888-89, the majority of the boundary work consisted in the improvement, keeping up, and better definition of existing boundaries.

In the Rawalpindi Division the demarcation of the Murree, Kahuta and Kalachitta Forests was further improved by the erection of 120 masonry trijunction pillars and 284 ordinary masonry pillars at a cost of Rs. 576 and Rs. 569 respectively ; 389 masonry pillars were repaired at a cost of Rs. 144, and 86 miles of boundary line were cleared, costing Rs. 300.

In Chamba 333 new pillars were erected and 1,599 old ones repaired, and 83 miles of boundary lines cleared at a total cost of Rs. 851. This was all in improvement and up-keep of existing demarcation.

In Bashahr new work was done in the demarcation of the Shil and Sanibathola Forests, and the necessary repairs to the existing boundaries executed.

In Montgomery the newly gazetted Sohag Reserve was demarcated by a 6-inch "Daghbel" line at a cost of Rs. 316.

The boundary work of the remaining Divisions does not call for any special remarks, as it consists entirely in repairs and in improvement of existing demarcation.

In the Annual Report for 1887-88, it was stated that there existed 1,848 square miles entirely undemarcated. But it must not be supposed that all this area is awaiting demarcation. In some instances the unclassed forests on our books will never be demarcated, as for instance, when it is known that their ultimate alienation for cultivation is inevitable. Of this nature are some of the rakhs in the Chenab Division.

Other rakhs again are distinctly awaiting the Land Revenue Settlement in progress, or shortly to be commenced. This is the case in Lahore and Chenab.

In no case is the demarcation of unclassed forests which, it is known, will ultimately pass into one or other class of permanent forest estates being neglected.

*Boundary Statement.*

| Divisions. | *Boundary Lines.* | | Loose stone walling erected | *Trenches.* | | *Pillars.* | |
|---|---|---|---|---|---|---|---|
| | New work. | Repairs. | | Newly made. | Cleared. | Newly erected. | Repaired. |
| | M. ch. | M. ch. | M ch. | M. ch. | M. ch. | | |
| Hazara ... ... ... ... | 6 42 | ... | ... | ... | ... | 21 | 53 |
| Rawalpindi ... ... ... | ... | 86 34 | ... | ... | ... | 404 | 389 |
| Chamba ... ... ... ... | ... | 83 0 | ... | ... | ... | 333 | 1,599 |
| Kangra ... ... ... ... | 25 0 | 42 0 | ... | ... | ... | 74 | 1,056 |
| Kulu ... ... ... ... | 191 0 | ... | ... | ... | ... | 1,800 | 663 |
| Bashahr ... ... ... ... | ... | ... | ... | ... | ... | 665 | 418 |
| Jhelum ... ... ... ... | ... | ... | ... | ... | ... | 13 | ... |
| Chenab ... ... ... ... | ... | ... | ... | ... | ... | ... | ... |
| Lahore ... ... ... ... | ... | 1 4 | ... | 15 36 | ... | 77 | ... |
| Mooltan ... ... ... ... | 86 32 | 157 42 | ... | ... | 2 73 | 661 | 718 |
| Montgomery ... ... ... | ... | ... | ... | 25 66 | ... | ... | 3 |
| Ambala ... ... ... ... | ... | 5 7 | ... | ... | 3 15 | 61 | 100 |
| Total ... ... | 308 74 | 375 7 | ... | 41 22 | 6 8 | 4,199 | 4,999 |

## CHAPTER II.

*Surveys, Working Plans and Annual Plans of Operations.*

### 1.—Surveys.

Work of the year

6. During the year Colonel Tanner's party of the Imperial Survey Department surveyed portion of the Palampur Tahsil, Kangra District, where some of the proposed Protected Forests are situated. It is believed that the departmentally prepared sketch maps, the preparation of which was noted on in last year's Report, were found to be of considerable assistance to the Surveyors

In Jhelum the correction of discrepancies in Settlement Records was continued, and reports in the case of 9 forests were submitted by the Forest Officer to the Deputy Commissioner.

The Imperial Forest Survey continued their work in the Bashahr and Kulu Divisions. In Bashahr the triangulation of the Pabar range was completed, and the detailed survey was continued in the Neogli and commenced in the Chini and Taranda ranges. In Kulu the boundary survey of the Forest blocks in Seoraj, south of latitude 31°·30′ was revised, and in the same range the survey of 10 proposed 1st class and 2 proposed 2nd class Protected Forests and 88 square miles of topography were completed; while in Kulu proper and Wazir Rupi the survey extended over 91 square miles, including 4 proposed Reserved, 23 1st class Protected and 8 2nd class Protected Forests.

Maps

7. Five sheets of the Chamba Leased Forests were received from the Superintendent, Forest Surveys, and the Simla and Jutog Survey sheet, together with 24 sheets of the Rawalpindi District Survey Map from the Surveyor-General, and in addition maps of the special survey of the Mahasu-Fagu range, and of the Theog and Keonthal States were forwarded to me by the Punjab Government.

### 2.—Working Plans.

Re-opening of the working plans branch

8. The Working Plans Branch was re-opened on the 4th of February 1890, when Mr. Lace, on re-transfer from Baluchistan, took over charge of the Division. Mr. Lace was engaged for a short time in my office in making himself acquainted with the condition of affairs as regards working plans in the Province, and then proceeded to Kalesar to revise and complete the plan of that forest in accordance with the orders conveyed in the Inspector-General of Forests' letter No. 43, dated 5th February 1887. Mr. Lace's final report had not reached me up to the end of the year.

Since the close of the year Mr. Lace has proceeded to Bashahr to commence a working plan for the Leased Forests in that State.

Working plans prepared, but not yet sanctioned.

9. *Murree and Kahuta.*—As noted in paragraph 8 of my Report for 1888-89, this plan was at the close of that year with the Financial Commissioner. That Officer returned the plan to me countersigned with his letter No. 5890 of the 7th October 1890, since which time it has been on the press and will shortly be submitted, finally printed off, to the Inspector-General of Forests, in accordance with the provisions of the Government of India Circular No. 28 F. of the 6th September 1889.

*Pangi* —Considerable hesitation was felt as to whether this plan should be treated under the old procedure or under that laid down by the Government of India Circulars Nos. 9 F. and 28 F. of 1889; towards the close of the year, however, it was decided that the latter procedure should be applied, and the plan will now be forwarded in print to the Inspector-General of Forests.

*Changa Manga* (Revised).—This revision was not officially sanctioned by the Local Government during the year. It is understood that the delay is due to the preparation by the Irrigation Department of the estimates for the proposed new water channels; but I have reason to believe that these are in a very forward state, and that orders may shortly be expected to issue.

*Kotgarh and Kotkhai*.—The Working Plan for these forests was made over to Mr. Lace on his return to the Province, and was subsequently returned to Mr. McIntire for some slight alterations. The plan was still with the last named officer at the close of the year.

Other Working Plans

10. *Simla Municipal Forests*.—In accordance with the above quoted Government of India Circular No. 28, Mr. McIntire submitted to me preliminary reports on the Working Plans for the Simla Municipal Forests and for the leased Simla water-supply catchment area These preliminary reports were forwarded by me to the Inspector-General of Forests, and were returned by him with his remarks and suggestions for their improvement. They were then sent back to Mr. McIntire who is engaged in completing the plans in agreement with the Inspector-General of Forests' suggestions.

Deviations from sanctioned plans

11. All important deviations in the case of sanctioned plans, will be noticed in the appropriate chapters, principally in Chapter IV.

### 3.—Plans of Operations.

General

12. I have this year introduced the system of having each Divisional Plan of Operations divided off into numbered projects: this makes it easier for Divisional Officers to refer to the progress of any particular scheme in their diaries, and also for me to see that the plans are being worked up to throughout the continuance of the year. I have satisfied myself that the provisions of all plans of operations have been, as far as practicable, carried out.

The more important deviations will be noticed under the appropriate heads of work.

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## CHAPTER III.—PROTECTION AND IMPROVEMENT.

### I.—Establishment.

Changes in the controlling Establishment

13. Besides the usual changes of officers in Divisions owing to privilege and other leave, the following may be noted:—

Sub-Assistant Conservator of Forests, Hira Singh, was transferred to Ajmere and Mr. Barrett returned to this Province.

Mr. Elliott relieved Mr. Lace in the deputation to Biluchistan; the latter Officer rejoining his Province and thus permitting of the revival of the Working Plan Division.

Mr. McDonell returned from furlough and Mr. Minniken was deputed for forest work in the Patiala State.

General remarks

14. Of the 17 Executive Officers referred to in last year's Annual Report, paragraph 12, Mr. D'Arcy is still on deputation with the Government of India, Mr. Minniken is in Patiala, Mr. Smith is on furlough, and is the only officer absent on long leave. Mr. McIntire is on special duty in connection with forest conservancy in the Simla States.

On the other hand we have an officer in excess of the sanctioned strength in Mr. Barrett.

Thus we have just 14 officers for the 12 Executive Divisional charges, the Conservator's Office and the Working Plan Division. Since the close of the year one officer, Mr. Shakespear, has been transferred to the North-Western Provinces and a Sub-Assistant Conservator of Forests is in charge of a Division.

The next demand on the list for furlough will necessitate a second Sub-Assistant being placed in Divisional charge while it is to be noted that not a single river has a European Assistant in charge; a state of affairs almost unknown in former years.

Subordinate Establishment

15. The names of the following Rangers have been favourably mentioned by their Divisional officers, Mr. Wallace, Devi Ditta, Thakur Dass, Jai Kishen and Jaggan Nath, and I have not, as last year, anything special to record in favour of the non-commissioned officers in the Department.

The Protective and Office establishments remained at their former strength and on the whole worked satisfactorily.

## 2.—General protection and breaches of Forest Laws.

Forest offences.

16. The classification of forest offences is exhibited in the following statement:—

| Nature of offences. | Number. | | Increase. | Decrease. |
|---|---|---|---|---|
| | 1888-89. | 1889-90. | In 1889-90. | |
| Injury to forest by fire ... | 65 | 92 | 27 | ... |
| Unauthorized felling, &c. ... | 608 | 567 | ... | 41 |
| Grazing without permission ... | 463 | 318 | ... | 145 |
| Other offences ... | 212 | 129 | ... | 83 |
| TOTAL ... | 1,348 | 1,106 | 27 | 269 |

There is thus a net decrease of 242 cases. The cases of illicit grazing which fell from 605 to 463 last year have now fallen to 318, or a further decrease of 145. Cases of injury by fire have increased by 27 up to the 31st March 1889, against similar cases for the same period in 1888-89. The exceptionally dry season is the cause of this increase.

Other offences are thus classified:—

| *Nature of offences.* | *No.* |
|---|---|
| Illicit cultivation ... ... ... | 55 |
| Boundary cases ... ... ... | 5 |
| Against river rules ... ... | 26 |
| Miscellaneous ... ... ... | 35 |
| Total .. | 129 |

It is satisfactory to note that during the last 3 years, forest offences have fallen from 1,487 to 1,106.

The increase of fire cases is entirely due to Bashahr, while the decrease of illicit grazing is principally in Chenab 71 cases, Jhelum 40 cases, and Mooltan 28 cases.

The percentage of convictions rose from 68 to 78·5, the total number of successful cases being 875, out of 1,119 taken into Court. Among Divisions the highest percentages were obtained in the Kangra and Rawalpindi Divisions with 89 each, and the lowest in Chenab with 50.

Cases compounded.

17. Under Section 67 of the Forest Act, the following statement shows the results of the action taken:—

*Cases compounded.*

| Divisions. | 1888-89. | 1889-90. | | | Average per case. | | |
|---|---|---|---|---|---|---|---|
| | No. of offences. | No. of offences | Amount for which compounded | | | | |
| | | | Rs. | A. P. | Rs. | A. | P. |
| Jhelum ... ... | 457 | 325 | 976 | 10 0 | 3 | 0 | 1 |
| Lahore ... ... | ... | 8 | 4 | 4 0 | 0 | 8 | 6 |
| Rawalpindi ... ... | 428 | 514 | 1,762 | 6 9 | 3 | 6 | 10 |
| Mooltan ... ... | 4 | 3 | 5 | 0 0 | 1 | 10 | 8 |
| Chenab ... ... | 107 | 30 | 80 | 5 0 | 2 | 10 | 10 |
| Montgomery ... ... | 2 | ... | ... | ... ... | ... | ... | ... |
| TOTAL ... | 998 | 880 | 2,828 | 9 9 | 3 | 4 | 7·4 |

The Rawalpindi cases continue to increase, as the Divisional Officer always, where possible, avoids the Courts and uses his powers under this section. The number of cases reported from Jhelum has fallen to the figure of 2 years ago.

As usual, I carefully examine on inspection the Divisional Office Registers of cases under this section, and am prepared to say that the powers are properly exercised.

Cattle Trespass.

18. The number of animals impounded shown in Appendix A, again exhibits a decrease, double of that reported last year.

Except Mooltan which shows an increase of 939 head, all the grazing Divisions give considerable decreases. Thus Rawalpindi has 4,903 fewer cattle impounded ; Chenab 2,276 ; Montgomery 1,800 ; Jhelum 897 ; Lahore 820 ; and Hazara 441.

## 3.—FOREST FIRES.

General remarks

19. Form 51 and the two statements usually given for illustration, show the broad results of the fire protection of the year :—

*Abstract showing areas (in acres) burnt and unburnt.*

| | Reserves | Protected forests | Unclassed State forests | Total. | Grand Total. | Percentage of entire area. |
|---|---|---|---|---|---|---|
| Areas of which the protection was attempted but which were burnt (Form No. 51) | 48,253 | 8,486 | 2,679 | 59,418 | ... | 1 56 |
| Other areas burnt ... | 9,887 | 8 | 28,624 | 38,519 | ... | 1·01 |
| Total areas burnt ... | 58,140 | 8,494 | 31,303 | 97,937 | 97,937 | 2 57 |
| Areas successfully protected (Form No. 51) | 1,11,079 | 22,700 | 79,096 | 2,14,075 | ... | 5·60 |
| Other areas which escaped burning ... | 9,14,627 | 1,98,015 | 23,98,008 | 35,10,650 | ... | 91 83 |
| Total areas unburnt .. | 10,26,366 | 2,20,715 | 24,77,704 | 37,24,725 | 37,24,725 | 97 43 |
| Grand Total area of forests of all classes (Form No 49) | 10,84,446 | 2,29,209 | 25,09,007 | 38,22,662 | 38,22,662 | 100 |

*Number of fires and areas burnt in each Division.*

| Division. | Number of fires. | | Area burnt (in acres). | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 1888-89. | | | 1889-90. | | |
| | 1888-89. | 1889-90. | Specially protected, Form 51. | Other areas. | Total. | Specially protected, Form 51. | Other areas. | Total. |
| Hazara ... | 22 | 133 | 1,093 | 3 | 1,096 | 19,680 | 3,771 | 23,451 |
| Rawalpindi . | 20 | 26 | 2,175 | 270 | 2,445 | 35,043 | 21 | 35,064 |
| Chamba ... | 4 | 8 | 25 | 27 | 52 | 6 | 125 | 131 |
| Kangra ... | 6 | 10 | 3 | 36 | 39 | 515 | 470 | 985 |
| Kulu .. | 20 | 57 | 290 | 4,257 | 4,547 | 904 | 6,877 | 7,781 |
| Bashahr ... | 19 | 70 | ... | 1,106 | 1,106 | ... | 20,798 | 20,798 |
| Chenab ... | ... | 3 | ... | ... | ... | ... | 407 | 407 |
| Jhelum . | ... | 3 | ... | ... | ... | ... | 19 | 19 |
| Lahore .. | 7 | 24 | ... | 640 | 640 | ... | 1,343 | 1,343 |
| Mooltan ... | 19 | 5 | 1,054 | 598 | 2,552 | 1,223 | ... | 1,223 |
| Montgomery ... | ... | 8 | .. | ... | ... | 0 | 187 | 190 |
| Ambala .. | 14 | 16 | 186 | 4,954 | 5,140 | 2,038 | 4,501 | 6,539 |
| Total ... | 140 | 363 | 5,726 | 11,891 | 17,617 | 59,418 | 38,519 | 97,937 |

We attempted to protect this year 2,73,493 acres or an increase of 15,978 over last year.

The main increases occur in Rawalpindi and Mooltan, the former with 8,742 acres more, due to the reservation of Kalachitta, and the latter with 6,250 acres of new forest.

The area burnt has been 21·7 per cent. of the 2,73,493 acres attempted or 59,418 acres which is about ten times the area burnt last year.

Of areas of forest land for which no special measures of protection were undertaken, 38,519 acres were also burnt as against 11,891 last year.

It is thus seen that from the point of view of fire protection, the year has been most disastrous.

In the Murree and Hazara Hills 35,043 acres have been burnt on the Rawalpindi side and 19,680 in Hazara, and in addition of tracts of which the protection was not attempted, another 3,771 acres in the Hazara Hills.

In Kulu 904 acres of protected and 6,877 of unprotected forest were burnt, and in Bashahr 20,798 of the latter class. In Ambala the Kalesar Forest lost 1,999 acres of its protected and 4,501 of its unprotected portion.

20. It is alleged that there is a three year's periodicity in the occurrence of these big fires in the Murree and Hazara Hills. Thus—

Fires in Murree and Hazara Hills

| Years. | Hazara. Area burnt in acres. | Rawalpindi. Area burnt in acres. |
|---|---|---|
| In 1883-84 ... | 3,716 | 2,618 |
| „ 1886-87 ... | 27,651 | 49,841 |
| „ 1889-90 ... | 23,451 | 35,064 |

This year the reserves in Hazara lost 19,680 acres and the Pindi Reserves and Protected 26,557 and 8,486 acres respectively, and the damage done in both Divisions has of course been incalculable. Out of the 133 fires in Hazara, it is stated that two of a very small area were due to lightning and that a few were due to carelessness, but that the rest must be attributed to deliberate incendiarism on the part of the villagers; the damage done in this Division is

estimated at Rs. 4,50,000. In Rawalpindi also almost all the fires are said to be due to incendiarism, either in the hope of obtaining a fresh crop of grass or on account of enmity between the various village communities.

I most strongly agree with the Divisional Officers that the only possible way to make any headway against this constant incendiarism is, by a vigorous application of the subsidiary rules of 1856 to make these communities thoroughly understand their joint responsibility, and to teach them by a severe lesson that Government will not permit this indiscriminate firing of the forests, when and where they please. I earnestly hope that in this instance Government will take really severe measures, for, in a case of this description, slight punishments are of no use, and things have now come to such a pass that either these fires must be put a stop to or fire protection abandoned as hopeless. We have enough experience before us now in the fires of 1890 and 1887, to say that it is not the expenditure of money in the form of fire lines, fire watchers, and rewards for assistance which will safeguard our forests from being burnt. We are practically in the hands of the villagers; without their co-operation our measures are futile; every endeavour has been made by means of a liberal Forest Settlement to purchase that co-operation and the result has been a failure. As if not satisfied with what has been given them under that settlement, they seem determined to force us to abandon all forest conservancy, and to restore them their forests as a thankless and unprofitable investment on the part of Government.

Fires in Kalesar Reserve.

21. Of the eight fires that occurred in the Kalesar Forest seven affected the protected area; most of these fires are attributed to incendiarism, the remainder being due to fire crossing from Nahan and Kalsia territories. A complete report on all these Kalesar fires has been submitted to the Commissioner of the Division. When, in a fire protected block the forest outside which for miles round up to the limit of British territory has already been burnt, four or five fires spring up simultaneously in the interior of that protected block, it is reasonable to assume that the work was that of an incendiary. On one occasion the incendiary was seen and chased: during the pursuit he turned and fired twice from a double-barrelled gun on our forest guard. The Deputy Commissioner has offered a reward of Rs. 100 for the arrest of this offender, and I have repeated this offer by a similar one on the part of the Forest Department.

This year fires in Dugshai were not so destructive, only 38 acres being burnt.

The large area of unclassed forest burnt in Bashahr was mainly due to the very unfavorable season, and to the people prematurely taking on themselves to burn their grass slopes, instead of waiting until the subordinates of this Department could arrange to supervise the burning.

## 4.—Grazing and Fencing.

General remarks.

22. As desired by the Government of India, the grazing statement is this year prepared, so as to show the areas affected for each class of forest, *i.e.*, reserved, protected and unclassed.

The total area affected has increased by 116 square miles. The main differences in the kinds of closure are a decrease of 4 square miles complete closures throughout the year; an increase of 72 square miles in partial closures; a decrease of 10 square miles closed to browsers only throughout the year, a decrease of 3 square miles to camels only, and an increase of 62 square miles to browsers only for a portion of the year.

The most important changes in Divisions are, the total closing of 53,510 acres of the Kalachitta Forest in the Rawalpindi Division for the portion of the year since the reservation, and the partial closing of 39,684 acres for the same period; and the throwing open in the same Division of considerable areas closed for 5 years to ensure reproduction after the disastrous fires of 1884.

In Montgomery the 17,065 acres outside Reserves last year closed to browsers only, but open to all other animals were this year thrown open entirely. This was due to the refusal of the Deputy Commissioner to continue closure in unreserved forests after felling.

| DIVISIONS. | I | | | II | | | III | | | IV | | | V | | | VI | | | VII | | | VIII | | | Total area affected. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Closed to all animals throughout the year. | | | Closed to all animals for a part of the year, but open to all animals for the remainder of the year. | | | Closed to browsers (only) throughout the year. Closed to all other animals for a part of the year only. | | | Closed to browsers (only) throughout the year. Open to all other animals throughout the year. | | | Closed to Camels (only) throughout the year. Closed to all other animals for a part of the year only. | | | Closed to Camels (only) throughout the year. Open to all other animals throughout the year. | | | Closed to browsers (only) for a part of the year. Closed to all other animals throughout the year. | | | Closed to browsers (only) for a part of the year. Open to all other animals throughout the year. | | | | | |
| | Reserves. | Protected. | Unclassed. | Reserves. | Protected. | Unclassed. | Reserves. | Protected. | Unclassed. | Reserves. | Protected. | Unclassed. | Reserves. | Protected. | Unclassed. | Reserves. | Protected. | Unclassed. | Reserves. | Protected. | Unclassed. | Reserves. | Protected. | Unclassed. | Reserves. | Protected. | Unclassed. |
| Hazára ... ... | 92,935 | ... | ... | ... | ... | ... | 11,666 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,04,601 | ... | ... |
| Ráwalpindi ... | 84,896 | ... | ... | 53,510 | ... | .. | 11,200 | ... | ... | 18,927 | 42,459 | ... | ... | .. | ... | 163 | ... | ... | ... | ... | ... | 39,684 | 850 | ... | 2,08,380 | 43,309 | ... |
| Chamba ... ... | 7,732 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 7,732 | ... | .. |
| Kángra ... ... | 31,907 | ... | 3,244 | 2,955 | .. | 1,000 | ... | ... | ... | 340 | ... | ... | 704 | ... | 238 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 35,906 | ... | 4,482 |
| Kulu ... ... | ... | ... | 19,621 | ... | ... | 640 | ... | ... | 1,400 | ... | ... | 1,530 | ... | ... | ... | ... | ... | ... | ... | ... | 7,780 | ... | ... | 5,280 | ... | ... | 36,251 |
| Bashahr ... ... | 37,936 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 37,936 | ... | ... |
| Jhelum ... ... | 1,02,334 | ... | ... | ... | ... | ... | ... | ... | ... | 5,059 | ... | 17,828 | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,07,393 | ... | 17,828 |
| Chenab ... ... | 11,167 | ... | 19,564 | ... | ... | 12,000 | 28,643 | ... | 50 | 46,853 | 16,950 | 13,386 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 86,663 | 16,950 | 45,000 |
| Lahore ... ... | 12,703 | ... | 10,857 | ... | ... | ... | 5,379 | ... | ... | 8,890 | ... | 69,720 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 26,972 | ... | 80,077 |
| Mooltan ... ... | 35,554 | ... | 12,237 | 1,081 | ... | 306 | 20,223 | ... | 34,524 | 22,580 | ... | 13,901 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 79,438 | ... | 60,968 |
| Montgomery ... | 28,472 | ... | ... | ... | ... | ... | 27,263 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 55,735 | ... | ... |
| Ambala ... ... | 9,162 | ... | 730 | ... | ... | ... | 3,077 | ... | ... | ... | ... | 40 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 12,239 | .. | 770 |
| Kotguru and Kotkhai | ... | ... | ... | ... | .. | ... | ... | ... | ... | 8,119 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 8,119 | ... | ... |
| Acres ... | 4,54,798 | ... | 65,753 | 57,546 | ... | 13,946 | 1,07,451 | ... | 35,974 | 1,10,768 | 59,409 | 1,16,405 | 704 | ... | 238 | 163 | ... | ... | ... | ... | 7,780 | 39,684 | 850 | 5,280 | 7,71,114 | 60,259 | 2,45,376 |
| S. Miles ... | 711 | ... | 103 | 90 | .. | 2 | 168 | ... | 56 | 173 | 93 | 182 | 1 | ... | ... | ... | ... | ... | ... | ... | 12 | 62 | 1 | 8 | 1,205 | 94 | 383 |
| Figures for 1888-89 Acres ... | 5,23,100 | | | 25,530 | | | 1,39,588 | | | 2,97,165 | | | 942 | | | 2,194 | | | 7,780 | | | 6,180 | | | 10,02,479 | | |
| Figures for 1888-89 S. Miles ... | 818 | | | 40 | | | 218 | | | 464 | | | 2 | | | 3 | | | 12 | | | 9 | | | 1,566 | | |

## 5.—Natural Reproduction.

23. *Hazara.*—Little can be added to what was said in paragraph 24 of last year's report concerning the natural reproduction in the silver fir Forests, and we are still unable to fix on the cause of the annually recurring failure of the young seedlings to establish themselves. Reproduction of the deodar in Kaghan and Dungagalli and of the blue pine continues to flourish, while that of the Chil is described as being everywhere profuse.

Natural reproduction in the hills

In the Khanpur fuel forests Sanatha reproduction is excellent, but that of phulai, kao and khair only scanty: coppice reproduction in these forests is also fairly good.

*Rawalpindi.*—Natural reproduction is particularly good in the Chil forests of Murree and Kahuta, with northern or eastern aspects, but the reproduction of this species on the warmer slopes does not appear to be so satisfactory.

The oak forests are reported to be doing well; but as regards the fuel forests on the lower hills the reports are not good, for here the Sanatha is the only species that successfully reproduces itself naturally from seed and by coppice shoots.

In Kalachitta, an almost pure forest of kao and phulai, the reproduction is at present bad; but this state of things is largely due to the overgrazing and browsing to which the forest has until lately been subjected, and we may now hope for improvement.

*Chamba.*—In this Division the natural reproduction of the deodar is abundant wherever the physical conditions are favourable: as this is generally the case, and as moreover, the forests have of late years enjoyed a remarkable immunity from fires, the reproduction of this species may be said to be generally satisfactory, and this statement also holds good for spruce, silver fir, and blue pine wherever these species occur.

The breaking up of the soil under seed-bearing deodars with a view to assisting natural reproduction has been very successful.

*Kangra.*—The forests of this Division may be divided into three classes, (1) the pure chil forests on the higher ridges; (2) miscellaneous hardwood forests on the lower and more broken grounds, and (3) mixed forests of chil and various hardwood species which are found between the other two; and in all three classes, natural reproduction both of chil and of the hardwoods is excellent, wherever fire has been successfully excluded, and where grazing is not admitted; though here also as in Pindi the chil is found to do best on northern and eastern aspects. Bamboo shoots did not this year attain their usual height owing to the scarcity of rain.

*Kulu.*—The deodar, spruce and silver fir seeded plentifully during this year, but the contrary was the case with the chil and blue pine.

It is a regrettable fact that almost all of the most valuable deodar forests in Kulu, that is to say, those in proximity to lines of export, have been in the past very much over exploited, and that consequently natural reproduction in them may best be described as being conspicuous by its absence; and it is further reported that the attempts at artificial reproduction which have for some years been carried out in these forests have not been successful.

In sharp contradistinction to the above, however, is the condition of the far more numerous deodar forests that have not been exploited: these are either forests of pure deodar or deodar mixed with blue pine and spruce, and for the most part contain young growth: in these the condition of the deodar could not be more promising and seedling reproduction is profuse and persistent, and moreover the proportion of deodar in the peuplement is undoubtedly on the increase.

The process is well seen in young mixed forests of blue pine and deodar, where the deodar, which is younger than the blue pine, and which must have been naturally introduced after it, has thriven to such an extent and is already so vigorous that it will certainly ultimately dominate and suppress the pine, and the forest become one of pure deodar.

The natural reproduction of the kail and chil is satisfactory in forests of these species wherever, but only wherever, they have escaped firing.

In the higher forests of spruce and silver fir, the reproduction is not so good, and this is remarkable, for the physical conditions in these forests appear to be very favourable: it may, however, be to some extent explained by the constant extraction of building timber which goes on from them.

Mr. Pigot has written a most excellent and interesting account of the reproduction in these Kulu forests, but it is too lengthy for incorporation here in full.

The difference between the spruce and silver forests in Kulu and Hazara on the one hand, and those in Chamba on the other, is curious. Taking the forests in the Gullies as the type of the former, and the Kalatop forest as the type of the latter, there is so to speak complete absence of reproduction in the one, and the most satisfactory reproduction in the other. In Kalatop every age of both spruce and silver is to be seen: in the Gullies, although germination is year after year profuse in the spring, the young seedlings do not persist until the rains.

Various suggestions have been put forward to account for this state of things in the Gullies. A comparison of the two types shows that in Kalatop there is a strong element of deodar in the peuplement, and also much oak. And the deodar has been steadily worked for quite the last 22 years, while a considerable quantity of fir has also found a market in Dalhousie, and the oaks are yielding before our improvement cuttings to find their way into the Station as firewood.

In the Gullies on the contrary, it is certain that the forests have not been so heavily worked, while the admixture of other species is much less than in the case of Kalatop.

In Kalatop we find a canopy most decidedly interrupted; in the Gullies, it is quite different.

The Gullies forests are again somewhat higher, and possibly the moisture in them is less than in Kalatop.

It is a question then whether a heavier working of the Hazara spruce and silver forests, may not be advisable. At the same time it has been noticed that blanks caused by such working, as has taken place, do not show any better reproduction than portions which show no signs of any exploitation at all.

*Bashahr.*—Owing to change of Officers at the close of the year, little information is this year available from this Division on the subject of reproduction. It is reported, however, that natural reproduction during the year was good in the Pandrabis range, but not so successful in Neogli, owing to an excessively dry season.

Natural Reproduction in the plains.

24. *Jhelum.*—In those parts of the District where strict closure has been enforced for some years, a few seedlings are to be noticed; but years of further closure must elapse before any appreciable result can be obtained. This is especially noticeable in the dry Salt Range, yet even here the effect of closing is visible everywhere, and fortunately in this tract the people are so well off for grazing in their private lands, that there is not much demand for grazing in the State rakhs. The result is that closure is comparatively easy and successful, and thus there is some hope of ultimately naturally clothing these very barren hills.

Nothing further can be added to what was said last year concerning reproduction in the "bar" rakhs of Chenab, Lahore and Mooltan.

In the Pabbi a dense crop of phulai seedlings appeared in the rains, but were all dead by December; this may be doubtless attributed to want of moisture, but at the same time it is curious to note that a profuse germination of this description has never been observed on this area before.

*Mooltan.*—In this Division coppice on areas lately felled over is everywhere successful, and seedlings of jand and farash (in Mooltan and Dera Ghazi Khan) and of bhan, lei and shisham (in Muzaffargarh) appear in considerable numbers wherever the ground is moist, or, where water can be occassionally obtained: generally however these seedlings die down for want of subsequent moisture, except in those Muzaffargarh rakhs that border on the Indus where they are reported to be making satisfactory progress.

In continuation of the remarks made last year concerning the reproduction of jand by root-suckers, it is to be noted that the experiments made during the year under report have further proved that the best system is that of wounding the roots by trenching round the stools and leaving the roots exposed. Ten acres in each of two Reserves were operated upon, with an average of 67 stools per acre, and it was found that the cost was between Rs. 10 and 12 per acre. Judging from the analogy of the Montgomery rakhs, I am of opinion that as good reproduction as we have a right to expect can be obtained without going to this expense ; and that by closing to grazing for a certain number of years, this reproduction will persist.

*Montgomery.*—The Reserves in the Montgomery District were carefully inspected from the point of view of reproduction.

Those that had been felled one or two years before, showed the most magnificent reproduction both from roots and from stools; young shoots sprouting 3 and 4 feet high in 1 year and 5 and 6 feet in 2 years. Both kinds were plentiful round each stool, and it is beyond doubt that the new crops now forming will be very much denser than the ones preceding them. In other words these Reserves are stocking up, and this is precisely the sylvicultural result aimed at.

In Reserves now 3 years old, the results are not so good, and this is due to no fault in the treatment but simply to the fact that protection has not been so good as in the case of the younger forests. The shoots which were probably 5 and 6 feet high in 2 years, had now, wherever they had escaped the browsing of cattle, attained a height of 10 and 12 feet.

The conditions of the forests cut 4 and 5 years ago is deplorable. Gashkori Reserve presents a perfect scene of desolation, and the jand is almost exterminated. In Okara the damage done is incalculable. In this Reserve I was told that 800 head of cattle had been impounded during the last few months only. It is necessary to see these forests to realize the mischief that can be done by cattle entering recently cut areas. As most of the illicit grazing goes on at the time when the forests contain next to no grass, it is the young crop of jand which bears the whole brunt of the browsing, for grazing there is so to speak none.

During the last two years protection has enormously improved, but the older forests such as Satghara, Okara and Gashkori have been ruined.

*Ambala.*—Natural reproduction is again reported to be progressing satisfactorily in those portions of the protected area of the Kalesar Forest which have escaped fire.

### 6.—Artificial Reproduction.

Regular plantations.

25. During the year 511 acres of regular plantations were re-stocked by planting and sowing; as last year, this area was mainly composed of the sowings within the Cantonment of Dagshai, where 348 acres were taken in hand, and at the same time 348 struck off.

In cases like this form 52 does not clearly show, however, the real work of the year. As a matter of fact, the entire acreage of this plantation is 400 acres and this has all at some time or other been planted up. But there are always repairs to execute, and, this year the filling up of blanks extended over 848 acres of the 400. But the area of the plantation has really not been increased, hence a similar area of 348 acres must be struck off the form, whether the work was successful or not. The year ends with the whole plantation planted up. Next year may show that filling up of blanks again extended over, say 200 acres; and so it goes on until every plant is established.

Cultural operations.

26. Cultural operations extended over 1,081 acres: the deductions on account of failures amount to 449, the net gain is therefore 632 acres.

This brings the total area over which work extended to 1,592 acres, of which 890 were struck off as failures the net gain is therefore 702 acres, and the total at the end of the year 20,857 acres.

The total expenditure of the year under artificial reproduction amounted to Rs. 27,916.

Of the Rs. 19,249 spent in the Lahore Division, the Chánga Mánga plantation cost Rs. 18,658, while the Dugshái, Subáthu and Phillour plantations in the Ambala Division cost Rs. 2,136.

### 7.—Removal of inferior species, Thinnings, &c.

Work of the year.

27. The removal of inferior species interfering with the free development of existing deodárs was this year carried out over an area of 1,896 acres in the Chamba Forests. This is a work which requires careful and intelligent supervision, and if done carelessly or badly must result in grave damage to the forests; it is therefore only carried out under the personal supervision of the Divisional Officer himself or of trained Rangers, and these Officers cannot devote sufficient of their time to completely carry out the prescriptions of the Working Plan in this respect. This is much to be regretted, but at the same time it is better to be on the safe side, and to know that the work done is properly carried out.

Brushwood and inferior species were cleared from the deodár plantations at Mánáli and Jagat Sukh in Kulu; and in the Fojal Kalaon Forest where the removal of inferior pines was undertaken with a view to the improvement of existing deodár.

The expenditure on this work amounted to Rs. 442, and for this amount some 6,000 trees were felled or girdled.

In Bashahr 281 deodar were freed from creepers and 5,721 kail and rái girdled in order to facilitate the growth of the more important species.

### 8.—Experiments and Exotics.

General remarks.

23. The cultivation of exotics has generally made some progress during the year under report. Experiments in Hazára have been continued, and so far have been very successful, the Eucalypti especially doing well; the Spanish chestnut too thrives wherever it has yet been introduced.

In Kulu also exotics are generally doing well, and the seed of the Spanish chestnut was sown in various parts of the Sub-Division, with a view to future distribution among the people; these seeds, however, have not yet germinated.

In Bashahr and Kángra, too, the Spanish chestnut is successful, and efforts are being made to introduce fruit trees among the people; but it is reported from the latter Division that the zemindárs take no interest in this subject of fruit cultivation.

Carob and Eucalyptus continue to thrive in the Carob plot at Lahore.

### 9.—Communication and Buildings.

Roads and bridges.

29. The expenditure of the year was for—

| | Rs. |
|---|---|
| New construction ... ... ... ... | 3,582 |
| Repairs ... ... ... ... | 2,711 |
| Total ... | 6,293 |

of this total Chamba expended Rs. 2,396 on the construction of 52½ miles of new footpaths, and Rs. 697 on the repairs of existing paths.

In Bashahr new work consisted of the construction of 10½ miles of new bridlepaths, and of 4 miles of new footpaths at a cost of Rs. 673 and 72 respectively; repairs were executed to 93 miles of the former and 13 of the latter at a total cost of Rs. 806.

Of the remaining Hill Divisions, Hazára, Kángra and Kulu all constructed a few miles of new roads.

In the Ambala Division the road through the Kalesar forest was extended by one mile at a cost of Rs. 83.

In all Divisions the necessary repairs were executed.

Buildings.

30. The expenditure of the year was for—

| | Rs. |
|---|---|
| New construction ... .. ... ... | 2,056 |
| Maintenance ... .. ... ... | 3,466 |
| Total ... | 5,522 |

As in the case of roads, Chamba with Rs. 1,288, and Bashahr with Rs. 928, are the Divisions where the principal expenditure was incurred. In Chamba the Kalatop bungalow was completed, new huts were erected for the Ranger and Guards at Bhent and the Guards at Bhandal, and the necessary repairs to existing buildings were carried out. In Bashahr, in addition to ordinary repairs, new out-houses were built at Taklech, Daran and Khadrala, and 4 Foresters' huts were erected in various parts of the Division.

Of the other Divisions, Mooltan shows an expenditure of Rs. 778 and Pindi of Rs. 566, in the former due principally to the erection of huts for one Forester and 8 Guards in various forests, and in the latter to the construction of the Ranger's quarters at Kahuta.

## CHAPTER. IV.—YIELD AND WORKING.

### SUMMARY OF PRODUCE REMOVED FROM THE FORESTS.

Summary of removals from the forests (Forms 54 and 55).

31. The following statement shows the comparison of the total out-turn for the last three years in cubic feet :—

| | 1887-88. | 1888-89. | 1889-90. |
|---|---|---|---|
| Removed by Government Agency ... | 28,61,842 | 24,44,340 | 26,06,109 |
| Do. by purchasers ... ... | 56,50,573 | 66,88,486 | 31,97,793 |
| Do under free grants and by right-holders ... ... ... | 2,91,93,085 | 3,39,11,036 | 2,12,13,559 |
| Total ... | 3,77,05,500 | 4,30,38,862 | 2,70,17,461 |

So that there has this year been an estimated decrease of 1,60,21,401 cubic feet removed from the forests; it must be remembered, however, that this year all fuel is shewn in cubic feet solid, which has necessitated a decrease of from 40 to 60 per cent. from the figures of stacked fuel as given in former years ; it is this reduction applied to the very large estimate of fuel removed by right-holders which is responsible for the main part of this apparently enormous decrease.

The comparative value of minor produce removed during the last three years is :—

| | 1887-88. | 1888-89. | 1889-90. |
|---|---|---|---|
| | Rs. | Rs. | Rs. |
| Removed by Government Agency ... | 14,277 | 13,518 | 16,759 |
| Do by purchasers ... ... | 2,02,614 | 2,18,817 | 2,08,396 |
| Do under free grants and by right-holders ... ... ... | 2,18,435 | 4,61,718 | 2,21,305 |
| Total ... | 4,35,326 | 6,94,053 | 4,46,460 |

which shows that there has been a decrease of Rs. 2,47,593 in the estimated value of minor produce removed from the forests: this is almost entirely due to a very large reduction in the estimated value of the produce removed by the Kulu right-holders, and will be explained in the proper place.

### 1.—DEPARTMENTAL OPERATIONS.

General remarks.

32. Form 53 having been struck out of the Code by order of the Government of India, the return of trees felled is not given this year; it was found to be of no value to compare the small number of large trees felled in one Division with the large number of small trees felled in another.

The timber and firewood yielded this year by the forests departmentally worked amounted to 26,06,109 cubic feet, or 161,769 more than last year. Accurate comparison is, however, difficult for the reason before given, that in accordance with the headings of the revised Form 54, this year's fuel figures are given in solid, while last year's were in stacked volume. The increase is, however mainly due to the departmental working of the Mooltan and Montgomery fuel rakhs.

Explanations by Divisions.

33. The main fluctuations among Divisions under this head are explained below :—

The Chamba Forests yielded 1,21,064 cubic feet less; this is explained by the fact that during 1888-89 extra fellings were undertaken, while in the present year it was found impossible, owing to the scarcity of labour, to com-

pletely carry out the provisions of the working plan in the matter of logging and conversion, though all or nearly all the prescribed number of trees were felled.

In Kángra the out-turn of bamboos was some 17,000 less than last year.

As agent for Kulu, this Division manipulated 1,79,680 cubic feet as against 58,923 of the previous year, or an increase of 1,20,757 which is due to the sleepers of the year reaching depôts before the end of March, a very unusual circumstance, and also to the collection of a large number of old and stranded logs. These figures not being the out-turn of the year from the forests, will not be found in Form 54, as the material they represent has mainly appeared in previous Forms 54, but they will be found in Form 56 for Kangra, as this Division received the material for the first time and had to account for it.

Kulu shows a decrease of 17,614 cubic feet ascribed to inferiority in the timber exploited, and to the waste consequent on conversion into sleepers rather than extraction in the log.

This year Bashahr has an increase of 68,947 cubic feet which is due to the conversion of large stocks remaining over from 1888-89.

The Jhelum Division shows an increase of 76,931 cubic feet received as agent for Hazára, which as in the case of Kángra will not appear in Form 54.

*Lahore.*—In this Division there is a decrease of about 2,50,000 cubic feet solid in the year's out-turn, due partly to the fact that a considerable portion of the out-turn from Changa Manga was this year exploited as timber instead of being cut up into firewood, but mainly to the great difficulty that was experienced in procuring labour. Also in accordance with the order of Government all labour that could be procured was utilized in connection with the experiment for providing the Commissariat Department with hay, and this too very materially retarded the exploitation works.

Mooltan shows an increase of 5,12,304 cubic feet solid; this is entirely due to the rakhs being worked by the Department instead of by the agency of contractors.

The Montgomery Division owing to the same cause shows an increase of 9,56,016 cubic feet.

As agent for Bashahr, the Ambala Division received 2,80,009 cubic feet against 2,24,696 cubic feet last year.

The value of minor produce removed by Government Agency during the year has risen by Rs. 3,241.

### 2.—Removal of Produce by Purchasers.

General remarks (Forms 54 and 55).

34. The abstract at the commencement of this chapter exhibits a decrease of 34,85,693 cubic feet under this head which is due to the above mentioned reduction from stacked to solid volume, and the transfer of the Mooltan and Montgomery fuel work to Departmental Agency.

Details by Divisions.

35. The main fluctuations among Divisions are as follows:—

*Hazara*, where there has been a decrease of 1,11,646 cubic feet stacked, caused by the completion of Military Works at Abbotabad, and consequent slack demand for timber and firewood and also by the failure to dispose of the fuel from the Khánpur rakhs.

*Rawalpindi.*—With an increase of 7,000 cubic feet of timber and 1,91,000 cubic feet stacked of fuel; which is ascribed by the Divisional Officer to the proximity to the markets of the forests, which the provisions of the Murree and Kahuta Working Plan required to be exploited this year.

*Chamba.*—Removals under this head in this Division are comprised solely under the sale, by permits, of dry fuel from the Kálátop Forest for the local consumption of Dalhousie and Bálun, which have this year resulted in an estimated increase of 64,783 cubic feet. The figures for the last 3 years, which I quote below, are interesting, as showing that there is a steady increase in the demand for this produce:—

| 1887-88. | 1888-89. | 1889-90. |
|---|---|---|
| *c. ft.* | *c. ft.* | *c. ft.* |
| 1,322 | 27,273 | 97,551 |

The Chenab Division shows an increase of 7,72,990 cubic feet solid which is due to the clearing of the Hafizabad rakhs before the approach of the new canal: this fuel supplies large demands in Lahore and Amritsar.

Lahore shows an increase of about 65,000 cubic feet solid which is attributable to 44 acres of Compartment No. 4 of the Shahdera Reserve, being this year removed by purchasers: The trees were felled by Government Agency, but all subsequent removal and conversion was done by purchasers.

In the Mooltan and Montgomery Divisions there are decreases of 5,72,632 and 9,16,812 cubic feet solid, respectively, due as before mentioned to the departmental working of the fuel rakhs.

Purchasers have this year extracted some Rs. 10,000 worth of minor produce, less than was the case last year.

### 3.—Produce given in Free Grants.

Free Grants

36. The addition of the different kinds of material entered in Form 54 will show that there was a slight increase this year in the material given away under this head: the figures are 7,51,056 and 7,59,300 cubic feet for the two years, respectively.

Among Divisions, noticeable items are an increase of 72,360 cubic feet in Bashahr, and a decrease of 54,572 cubic feet in Kulu. In Bashahr the increase is due to the Divisional Officer's estimate of the rate of consumption made last year having this year been increased by the Superintendent of Hill States. In Kulu where free grants are only given for the requirements of Public Works, it is reported that the decrease is due to the indents of last year having been exceptionally heavy, and to a more rigid scrutiny and check exercised over those that have this year been submitted.

### 4.—Produce removed by Right-holders.

Timber and Firewood

37. The estimates of timber and firewood consumed by right-holders are this year considerably lower than they were last, the figures being 2,04,54,259 against 3,31,59,980; the majority of this decrease, however, is due to the conversion of the Kulu firewood figures from stacked to solid volume.

The Divisions which show the chief variations are, Rawalpindi with a decrease of 64,210 cubic feet (the firewood figures for this year being left in stacked volume), which is ascribed by the Divisional Officer to the transfer of the power of granting trees from the Tehsildars to the Deputy Commissioner himself, and the consequent more rigid scrutiny of the demands made.

*Kangra*, with a decrease of 22,987 cubic feet: actually the number of trees removed was greater this year than last, but owing to the larger trees having mostly been previously cut out, the number of cubic feet is less.

*Kulu.*—The estimates for the produce removed by right-holders have remained the same as last year, but the reduction of the firewood to solid volume has caused a decrease of 1,05,57,249 in the number of cubic feet recorded.

In continuation of the remarks made in clause 3 of paragraph 41 of last year's report, on the subject of the building timber given to right-holders in Kulu, I append the following quotation from the Divisional Officer's report:—

"As regards building timber, every Kothi in Kulu was visited, due "notice being given beforehand, by the Assistant Commissioner or Forest Officer, "during the year for the purpose of making these grants. The procedure laid down "in Secretary to Financial Commissioner's No. 5964, dated 25th October 1887, "was systematically followed; and for the first time the *real* requirements of the "people in this respect were ascertained and provided for. Much labour was "involved and time devoted solely to this work; and the result shows how reckless "must have been the granting under the former system. The quantity in cubic "feet thus granted during the past three years is as follows:—

| | | | |
|---|---|---|---|
| In 1887-88 | ... | ... | 30,26,329 cubic feet. |
| In 1888-89 | ... | ... | 21,91,654 " |
| In 1889-90 | ... | ... | 8,81,105 " |

"In other words, although for the first time every Kothi was visited, and "the work systematically done, the grants during the year under report were

"71 per cent. below those of 1887-88 and 60 per cent. below those of 1888-89. "Investigations into the manner in which timber previously granted was used, "showed in many cases that there had either been great waste of good timber by "the people; or that the whole of the timber given in a particular grant had not "been utilized. It is probable that the people will complain that they have not "been given a sufficiency of timber during 1889-90. But it is impossible, under "the system in operation, that real hardship can ensue in this respect. The "difference lies in the fact that in future there will be fewer opportunities for "reckless waste of building timber by the people."

*Bashahr.*—For this Division, as in the case of Kulu, the reduction from stacked to solid volume causes a decrease of 4,25,000 cubic feet. In reality, however, the amount estimated to have been given has increased.

Expressed in stacked cubic feet, the figures are 27,00,000 this year against 22,50,000 last year. Converted to solid cubic feet the comparison is 18¼ lakhs this year to 15 last year.

The rise in the estimate is due to the Superintendent of Hill States, having considered the Divisional Officer's figures too low.

Minor produce.

38. The estimated value of minor produce removed by right-holders has, as before mentioned, fallen from Rs. 4,61,718 in 1888-89 to Rs. 2,21,305 this year. Almost the whole of this is due to the Kulu Division where, although the produce estimates remain the same, the estimate of their value has been reduced by Rs. 2,38,421. To explain this seemingly great difference, I cannot do better than again quote from Mr. Pigot's report:—

"Still greater uncertainty is felt as to the assessing of value to the pro- "ducts removed. The values entered in Form 55 are purely empyrical. While "the produce removed is absolutely necessary for the domestic economy of the "people, it is impossible to think that, were the values as set forth in the report "for 1888-89 charged in every case as the prices, the produce would be removed. "The people could simply not exist, and would cease to cultivate their land even "if the revenue were remitted. The Assistant Commissioner states that he is as "far as ever from being able to form an opinion as to prices. He writes:—

"To suit my estimates of the resources of the people, firewood, grass, "and luhr "leaf mould" would each have to be valued at 100 maunds to the "rupee! This seems absurd; but you have, yourself, in case of grass, demon- "strated from the grazing figures that the price realized in the shape of grazing "fees is much less than this."

"Last year the value of the grass removed was estimated at 10 maunds "per rupee, or Rs. 2,65,000; and, as this estimate is clearly impossible, it has "been reduced to one-tenth or Rs. 26,500. The values entered for grazing and "vegetable mould have been left unaltered."

39. The variations among the other Divisions do not call for any separate explanation.

## 5.—Imports.

A statement of the imports of timber and bamboos will be found in Appendix B.

Summary.

The figures compare thus with those of 1838-89:—

| Description of timber. | 1888-89. | 1889-90. | 1889-90. | |
|---|---|---|---|---|
| | | | More. | Less. |
| Deodar logs ... | 30,726 | 14,423 | ... | 16,303 |
| Pine logs ... | 447 | 4,413 | 3,966 | ... |
| Sleepers ... | 6,08,396 | 4,61,610 | ... | 1,46,786 |

## 6.—General.

Special Work in the Simla Hills

40. Mr. McIntire's special work commenced in 1886-87, during which year he had charge of the Reserved Forests of Kotkhai and Kotguru only.

During this year, the revenue amounted to Rs. 375, and the expenditure to Rs. 3,120-1-0 paid by Government, and Rs. 60 paid by the District Funds.

In 1887-88 he took over, as Assistant to the Superintendent, the work connected with the Hill States, which was to advise them generally and to get some areas demarcated, to be reserved for forest management.

The finances of the year stand—

*Reserves.*—Revenue Rs. 137, expenditure Rs. 639-0-4 paid by Government and Rs. 60 by District Funds; Simla Hill States: expenditure Rs. 5,556.

In 1888-89 he did some special work in connection with the Simla Municipal Forests, and some in the Patiala State, and the revenue and expenditure of the year were.

*Reserves.*—Revenue Rs. 87, expenditure Rs 1,200-11-0 by Government and Rs. 60 by District Funds.

| | | Rs. |
|---|---|---|
| Simla Hill States Expenditure | ... ... | 6,630 |
| Patiála State ,, | ... ... | 873 |
| Simla Municipality ,, | ... ... | 350 |

In 1889-90 Mr. McIntire formally, took over the work of the Simla Municipal Forests and of the planting in the Cantonment of Jutogh.

The figures for the year stand—

*Reserves.*—Revenue Rs. 182-2-0 and expenditure Rs. 1,257-15-1

*Simla Municipal Forests.* Revenue Rs. 7,671-11-0 and expenditure Rs. 3,739-14-9, of which Rs. 1,215 were paid by Government.

| | | Rs. | A. | P. |
|---|---|---|---|---|
| Simla Hill States Expenditure | ... | 5,883 | 1 | 0 |
| Jutogh Cantonment ... ... | ... | 80 | 12 | 0 |

By a peculiar arrangement, the revenue from Kotkhái and Kotguru (including that from unclassed as well as reserved forests) goes to District Funds, while the outlay is at the cost of Government in the the Forest Department.

Bakani slide

41. During the year the breaking up of the Bakani slide was commenced, and 2,429 deodar logs, which formed part of the slide were launched.

Comparison between the growth of shisham on Sailaba and irrigated rakh land

42. As a comparison between the out-turn of shisham on Sailaba land, as against that in artificially irrigated rakh land, I append the following table showing the results of the year's working in Shahdara and Changa Manga, respectively :—

| Locality | Area cut | Nature of felling. | Yield of each class of wood in cubic feet. | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *Timber.* | | *Fuel under 2" diameter.* | | *Fuel over 2" in diameter.* | |
| | | | Cubic feet solid. | Average per acre. | Cubic feet stacked | Average per acre | Cubic feet stacked. | Average per acre. |
| Changa Manga Reserve | 414 | Clearance felling reserving 10 to 15 standards, per acre. | 38,071 | 92 | 1,34,040 | 326 | 5,28,620 | 1,279 |
| Ditto ... | 3,050 | Dead and wind falls | 502 | ... | ... | ... | 1,03,360 | ... |
| Total ... | ... | ..... | 38,573 | ... | 1,34,040 | ... | 6,31,980 | ... |
| Shahdara ... | 24 | Clearance felling reserving 10 to 15 standards per acre | 4,419 | 184 | ... | ... | 69,380 | 2,890 |
| Ditto ... | 218 | Dead and wind falls | ... | ... | ... | ... | 750 | .. |
| Total ... | ... | ..... | 4,419 | ... | ... | ... | 70,130 | ... |

43. In Shahdara, for the first time the experiment was tried of felling the entire crop before conversion to purchasers.

Experiment at Shahdara.

44 acres of Compartment No 4, having been departmentally felled according to the provisions of the Working Plan, that is to say leaving 15 to 20 standards per acre, the trees as they lay were put up to auction in two lots, for the purchaser to convert into timber or fuel as seemed fit to him.

One lot of 26 acres sold for Rs. 130 per acre and the other of 18 acres for Rs. 158 per acre. Assuming that the out-turn was the same per acre as that of the 24 acres departmentally felled and converted of the same compartment, then, 7,926 cubic feet of timber and 1,33,207 of fuel sold for Rs. 6,244, from which we must deduct Rs. 195, the expense of felling.

The 24 acres of the same compartment departmentally worked, cost Rs.554-14-2 and the out-turn which is shown in paragraph 42, realized Rs. 5,225-13-10. The net gain on the 44 acres is therefore Rs. 6,029 and that on the 24 acres Rs. 4,670.

44. The fuel operations in Mooltan undertaken on behalf of the Railway resulted in the cutting and carriage to the Railway line of 9,78,527 cubic feet stacked, of which 6,94,953 were made over during the year, and similar work in Montgomery gave 19,12,032 of cubic feet stacked, of which 18,91,532 cubic feet were made over to the Railway.

Mulkan and Montgomery fuel work.

45. *Khanpur.*—As stated in paragraph 9 of last year's report, it was decided to allow the provisions of this plan to be carried on for a few years, until fully worked up to. It was hoped that during the year under report a considerable area would have been cut out, but the arrangements fell through, and no cuttings took place.

The operation of existing Working Plans.

These forests are very inconveniently situated for transport of the produce to Rawalpindi, the chief market, and it is now under consideration to open them out by roads, so as to put them into communication with the lines of traffic, converging upon Rawalpindi which should remove all difficulty of disposing of the fuel.

*Chamba.*—The provisions of the Chamba Plan have been completely carried out during the year under report with the three following trifling exceptions:—

(*a*).—The prescribed planting of 20 acres in Chadbent Forest could not be carried out owing to want of seedlings. Nurseries were, however, established for the future execution of this work.

(*b*).—All trees prescribed for exploitation having been felled and logged, the sawing work in Chadbent and Rambo Forests could not be entirely completed owing to want of sawyers and other labourers.

(*c*).—The work of cutting out inferior species in the Rambo and Loha Forests could not be undertaken owing to the want of adequate supervision.

*Rawalpindi.*—Although the Murree and Kahuta Plan has not been officially sanctioned, its prescriptions have been as far as practicable, carefully worked up to during the past year. Owing to short demand, however, the exploitation operations were not quite completed, in that 132 trees from Compartment No. 30 (*c*) (Kalojan Chakla Protected Forest), and the firewood on part of the prescribed area of the Gura and the whole of that of the Masot Reserved Forests, remained unsold.

*Changa Manga.*—The area set down to be felled during the year amounted to 145·8 acres, and in addition to this 144 acres were left unfelled from 1888-89. Of this total of 589 8 acres, it was only found possible to fell Compartments Nos. 71, 72, 73 (*b*) and 74, the total area of which amounts to 412·2 acres. We are therefore 175·6 acres behind the provisions of the plan up to the end of 1889-90, but it is hoped that this will be fully worked off next year.

The reasons for the failure to complete the fellings of the year under report are, firstly scarceness of labour, and secondly that owing to the urgent nature of the operations that were undertaken to supply the Commissariat with hay, all the labour that collected was put on to this latter work.

The total yield of the area that was cut over, shows a decrease of 1,30,612 cubic feet stacked on the original estimated yield of 8,51,000 ; but a good deal of this may be put down to the cutting up of the fuel under 2 inch diameter into 2½ feet length, instead of into 5 feet lengths, as originally estimated for : this was done to suit the convenience of the Railway authorities, who this year took over the whole out-turn of the Plantation, and the process naturally entails a good deal more waste, and allows of considerable closer stacking.

*Shahdara.*—As laid down by the Working Plan, Compartment No. 4 was fully worked out : operations resulted in an out-turn of 1,96,577 cubic feet, as against the estimate of 1,37,000 cubic feet.

*Bhera Rakhs.*—This year again the Railway did not require fuel from these areas, and consequently the plan remained in abeyance.

## CHAPTER V.- FINANCIAL RESULTS.

Revenue

46. The financial results shown in Form No. 58 give a surplus of Rs. 2,75,858, which is above the average of the last 12 years, [see Appendix B of last year's report] and above the average of the last 5 years.

It was explained last year that the high surplus of 1888-89 was in some measure due to the sale of balance stocks in Chamba.

In this year we have on the contrary somewhat anticipated some timber revenue, as we have received and sold in Chamba and in Kángra sleepers which were sawn *in the year* and which would ordinarily not have reached depôt and been available even for sale until 1890-91.

On the other hand in fuel we have an amount of 12 lakhs made over to the Railway, and on which all expenses have been paid, but which owing to the lateness of the year could not be paid for and passed into the account.

As the sums received and due on these two accounts will about balance, it may be said that the current year's surplus is about what it ought to have been, and that it approximates to the normal, but that Chamba and Kangra may possibly show short returns next year, and Montgomery a large increase over Budget.

Departmental timber has fallen and fuel has risen owing to the Mooltan and Montgomery works ; and the revenue from this latter source would have been much larger, could certain bills have been passed into account in time.

Grazing is slightly less and minor produce and drift much more than last year.

Expenditure.

47. Under A, there has been an increase owing to the fuel operations.

The Forest Survey in Bashahr accounts for the increase under A VIII.

Other fluctuations under A are not remarkable, and will be dealt with under the Budget.

Under B the Forest and depôt establishments cost almost exactly the same as last year, and all the B charges are very normal.

Financial results (Form no 62).

48. The following statement compares the surplus or deficit under the three great heads of accounts :—

| | 1887-88. | | 1888-89. | | 1889-90. | |
|---|---|---|---|---|---|---|
| | Surplus. | Deficit. | Surplus. | Deficit. | Surplus. | Deficit. |
| I.—Departmental timber operations ... ... | 4,963 | ... | 2,88,833 | ... | 1,79,080 | ... |
| II.—Other revenue .. ... | 2,73,039 | ... | 3,15,881 | ... | 2,52,026 | ... |
| III.—Protection ... ... | ... | 1,68,977 | ... | 1,51,868 | ... | 1,55,848 |
| Total ... | 1,09,025 | ... | 4,52,846 | ... | 2,75,858 | ... |

Outstandings (Forms 60 and 61).

49. Outstandings of revenue have fallen to Rs. 8,834 only, Rs. 1,119 having been written off as irrecoverable

Kangra and Ambala are the only Divisions with outstandings against Contractors of over Rs. 500, but in both cases the outstandings belong to the year under report.

Net result of the year's transactions.

50. The value of the year's transaction can be seen as below :

| | Rs |
|---|---|
| Cash surplus (Form No. 58) ... ... ... | 2,75,858 |
| *Add* :— | |
| Increased value of Stock at Depôts (Form No. 57) ... | 2,54,866 |
| *Deduct* : | |
| | 5,30,724 |
| Reduction on Revenue outstandings ... ... | 7,965 |
| TOTAL IN FAVOR OF THE YEAR ... | 5,22,759 |

Results of the year by divisions after adjustment of accounts for timber work between Hills and Plains Divisions

51. The following statement shows the results of the year by Divisions, after the adjustment of Accounts for Timber works :—

| Divisions. | Revenue. | Expenditure. | Surplus. | Deficit. |
|---|---|---|---|---|
| Hazara ... | 64,922 | 51,933 | 12,989 | ... |
| Rawalpindi ... | 31,127 | 23,641 | 7,486 | ... |
| Chamba ... | 2,17,014 | 1,33,651 | 83,363 | ... |
| Kangra .. | 32,153 | 25,276 | 6,877 | ... |
| Kulu ... | 1,14,105 | 48,468 | 65,637 | ... |
| Bashahr ... | 64,198 | 1,04,036 | ... | 39,838 |
| Jhelum ... | 29,901 | 20,630 | 9,271 | ... |
| Chenab ... | 1,17,308 | 21,887 | 95,421 | ... |
| Lahore ... | 72,581 | 53,377 | 19,204 | ... |
| Mooltan ... | 61,687 | 43,982 | 17,705 | ... |
| Montgomery ... | 1,09,986 | 59,654 | 50,332 | ... |
| Ambala ... | 6,709 | 16,860 | ... | 10,151 |
| Direction ... | 22 | 42,460 | ... | 42,438 |
| Total ... | 9,21,713 | 6,45,855 | 2,75,858 | ... |

Financial Review of Divisions.

52 The following statistics regarding the financial working of Divisions are interesting. The figures are approximate only, but are believed to be fairly accurate :—

Hazara Division. In the nine years ending 1889-90, this Division has made Rs. 6,67,474 and spent Rs. 5,38,684, leaving a net surplus of Rs. 1,28,790.

The Jhelum Division in the same period has spent Rs. 3,18,514 and made Rs. 3,38,775, ending therefore with a surplus of only Rs. 20,261.

The Chamba Division has, in the ten years including 1889-90, made Rs. 16,33,859 and spent Rs. 15,07,902, yielding a surplus of Rs. 1,25,957, and the Chenab Division during the nine years ending 1889-90 made a surplus of Rs. 6,18,630, being the difference between Rs 8,66,245 of revenue and Rs. 2,47,615 of expenditure.

The Kulu Division has made during the last eight years, Rs. 4,45,614 and spent Rs. 3,48,834, leaving a surplus of Rs. 96,780 and the Kangra Division has during the same period made Rs 2,44,762, spent Rs. 2,18,693 and gained a surplus of Rs. 26,067 only.

In Bashahr the revenue of nine years has been Rs. 8,95,360 and the expenditure Rs. 8,24,793, with a surplus of Rs. 70,567, while the Ambala Division has been worked during the same period at a deficit of Rs. 20,860 having spent Rs. 86,559 and made only Rs. 65,699.

In the Rawalpindi Division the figures are for eleven years; revenue Rs. 5,40,944, expenditure Rs. 4,11,950 and surplus Rs.1,28,994.

In Lahore the results of nine years are—revenue Rs. 9,84,571, expenditure Rs. 5,69,206 and surplus Rs. 4,15,365.

The Montgomery Division has made in ten years Rs. 8,90,094, spent Rs. 1,59,009 and gained a surplus of Rs. 7,31,085, while in Mooltan the figures are Rs. 3,89,783 of revenue, Rs. 1,96,925 of expenditure and Rs. 1,92,858 of surplus.

In Hazara the paying unit is Kaghan, the deodar timber of which is floated down to and sold at Jhelum. The Dungagali Forests, being composed mainly of firs and pines, do little more than support themselves, and the lower ranges of Khanpur and Siran are a drain upon the resources of the Division.

Rawalpindi is not a rich Division, and has been paying less of late years than some eight or ten years ago. But this is probably not to be regretted for timber and fuel are so valuable in this part of the country that the larger our stocks are the better.

Jhelum is a poor and dry Division, and the value of the grazing on the Jhelum River and on the right bank of the Chenab is in marked contrast with that in the Hafizabad and Bhera rakhs on the left bank of the Chenab in the Chenab Division.

Kangra is decidedly poor: and the Hill Divisions of Chamba, Kulu and Bashahr eat up in the expenses of their exploitation a very large proportion of their revenue. It is purely the Rakh Divisions, such as Montgomery, Lahore, and Chenab, which are the principal mainstay of the finances of the Department, as they cost comparatively little, and give large returns in fuel and grazing.

In the Hill Divisions it is the fact of only the deodar really paying for its exploitation which keeps their finances low, while in the plains all arborescent vegetation has some value as fuel, while the hardships of life in the hills necessitate the free consumption by the people of their fuel and building requirements.

Cost of special work in the Simla Hills

53. The following statement shows the cost of the work on which Mr. McIntire has been engaged during the last four years in the Simla District. :—

# STATEMENT SHOWING REVENUE AND EXPENDITURE CONTROLLED BY Mr. McINTIRE ON SPECIAL DUTY.

| Year. | Forests. | Revenue. | | | Expenditure "A." | | | Expenditure "B." | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | |
| 1886-87 ... | Reserved Forests ... ... | (b) 375 | 0 | 0 | 36 | 1 | 0 | 3,084 | 0 | 0 | |
| | | | | | | | | (a) 60 | 0 | 0 | (a). Contributed by District Funds. |
| 1887-88 ... | Ditto ... ... | (b) 137 | 0 | 0 | 20 | 0 | 4 | 619 | 0 | 0 | (b). Credited to " " |
| | | | | | | | | (a) 60 | 0 | 0 | |
| 1888-89 ... | Simla Hill States ... ... | ... | ... | ... | ... | ... | ... | 5,556 | 0 | 0 | |
| | Reserved Forests ... ... | (b) 87 | 0 | 0 | 264 | 7 | 0 | 936 | 4 | 0 | |
| | | | | | | | | (a) 60 | 0 | 0 | |
| | Simla Municipal Forests ... ... | ... | ... | ... | ... | ... | ... | 350 | 0 | 0 | |
| | " Hill States ... ... | ... | ... | ... | ... | ... | ... | 6,630 | 0 | 0 | |
| | Patiala State ... ... ... | ... | ... | ... | ... | ... | ... | 873 | 0 | 0 | |
| 1889-90 ... | Reserved Forests ... ... | (b) 182 | 2 | 0 | 390 | 3 | 4 | 867 | 11 | 9 | |
| | Simla Municipal Forests ... ... | (c) 7,671 | 11 | 0 | (d) 622 | 0 | 3 | 1,215 | 0 | 0 | (c). " " Municipality. |
| | | | | | | | | (d) 1,902 | 14 | 6 | (d). Paid by " |
| | " Hill States ... ... | ... | ... | ... | ... | ... | ... | 5,883 | 1 | 0 | |
| | Jutogh ... ... ... | ... | ... | ... | 80 | 12 | 0 | ... | ... | ... | |
| | | (b) 781 | 2 | 0 | 791 | 7 | 8 | 5,506 | 15 | 9 | |
| | | (c) 7,671 | 11 | 0 | (d) 622 | 0 | 3 | (a) 180 | 0 | 0 | |
| | | | | | | | | 873 | 0 | 0 | |
| | | | | | | | | 7,121 | 0 | 0 | |
| | | | | | | | | 12,513 | 1 | 0 | |
| | | | | | | | | 1,902 | 14 | 6 | |
| | Total ... | ... | ... | .... | 1,413 | 7 | 11 | 28,096 | 15 | 3 | |

| "B." Expenditure. | | Rs. | A. | P. |
|---|---|---|---|---|
| Reserved Forests | ... | 5,506 | 15 | 9 |
| " " by District Funds | | 180 | 0 | 0 |
| Patiala | ... | 873 | 0 | 0 |
| Simla Municipality by Government | | 1,565 | 0 | 0 |
| " Hill States | ... | 18,069 | 1 | 0 |
| Paid by Municipality | ... | 2,524 | 14 | 9 |
| Total | ... | 28,718 | 15 | 6 |

# STATEMENTS.

**FORM No. 49.**

## AREA OF RESERVED FORESTS, 1889-90.

| Division. | Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1889. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1890. | | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | |
| Hazara. | Dungagali... | Hazara ... | Dungagali Reserves ... | 40,714 | 63·62 | ... | ... | 40,714 | 63·62 | |
| | Kaghan ... | Do. ... | Kaghan Reserves ... | 57,487 | 89·82 | ... | ... | 57,487 | 89·82 | |
| | Siran ... | Do. ... | Siran Reserves. | 20,986 | 32 79 | ... | .. | 20,986 | 32·79 | |
| | Khanpur ... | Do. ... | Khanpur ,, | 31,786 | 49 67 | ... | ... | 31,786 | 49·67 | |
| | | | Total ... | 1,50,973 | 235·90 | ... | ... | 1,50,973 | 235·90 | |
| Rawalpindi. | Rawalpindi | Rawalpindi | Rawalpindi Reserves ... | 35,520 | 55·50 | 181(a) | 124(a) | 35,577 | 55 59 | |
| | Kala Chitta | Do. ... | Attock Reserves ... | 5,420 | 8·47 | 71(a) | 12(a) | 5,479 | 8 56 | |
| | Fatehjang... | Do. ... | Fatehjang Reserves ... | 14,982 | 23·41 | 364(a) | ... | 15,346 | 23·97 | |
| | Kahuta ... | Do. ... | Kahuta Reserves ... | 41,072 | 64 18 | ... | 73(a) | 40,999 | 64·06 | |
| | Murree ... | Do. ... | Murree Reserves ... | 30,462 | 47 60 | ... | ... | 30,462 | 47·60 | |
| | Kala Chitta and Fatehjang | Do. ... | Kala Chitta Reserves ... | ... | ... | 93,194(1) | ... | 93,194 | 145·62 | (1). Punjab Government Notification, No 24, dated 21-1-90 |
| | | | Total ... | 1,27,456 | 199 16 | 93,810 | 209 | 2,21,057 | 345·40 | |
| Chamba. | Pangi ... | Chamba ... | Pangi Forests | 25,750 | 40 23 | ... | ... | 25,750 | 40 23 | |
| | Dalhousie .. | Do. ... | Kalatop ... | 2,602 | 4 06 | ... | ... | 2,602 | 4·06 | |
| | Do | Do. ... | Kainthli ... | 964 | 1·51 | ... | ... | 964 | 1·51 | |
| | Do | Do. ... | Bakloh ... | 643 | 1·00 | ... | ... | 643 | 1·00 | |
| | Do. | Do. ... | Banikhet ... | 517 | 0·81 | ... | ... | 517 | 0·81 | |
| | Bhandal ... | Do. ... | Bhandal Forest | 9,797 | 15·30 | ... | ... | 9,797 | 15·30 | |
| | Tisa ... | Do. ... | Tisa Forests. | 23,834 | 37·24 | ... | ... | 23,834 | 37·24 | |
| | Barmaur ... | Do. ... | Barmaur ,, ... | 19,373 | 30·27 | ... | ... | 19,373 | 30 27 | |
| | Chamba ... | Do. ... | Chamba ,, ... | 17,975 | 28·09 | ... | ... | 17 975 | 28·09 | |
| | | | Total ... | 1,01,455 | 158·51 | ... | ... | 1,01,455 | 158·51 | |
| Kangra. | Dera ... | Hoshiarpur | Dera Reserves | 14,913 | 23·30 | ... | ... | 14,913 | 23 30 | |
| | Do. ... | Kangra ... | Do. ... | 11,066 | 17·29 | ... | ... | 11,066 | 17·29 | |
| | Beas River | Hoshiarpur | Belas ... | 530 | 0·83 | ... | 5(b) | 525 | 0·82 | |
| | Nurpur ... | Kangra ... | Nurpur Reserves ... | 9,402 | 14·69 | ... | ... | 9,402 | 14·69 | |
| | | | Total ... | 35,911 | 56·11 | ... | 5 | 35,906 | 56·10 | |
| Bashahr. | Neogli ... | Simla ... | Neogli Reserves | 37,920 | 59 25 | ... | ... | 37,920 | 59·25 | |
| | Tranda ... | Do. ... | Tranda ,, ... | 11,130 | 17·39 | ... | ... | 11,130 | 17·39 | |
| | Kilba ... | Do. ... | Kilba ,, .. | 6,833 | 10 68 | ... | ... | 6,833 | 10 68 | |
| | Kailas ... | Do. ... | Kailas ,, ... | 15,730 | 24·58 | ... | ... | 15,730 | 24·58 | |
| | Chini ... | Do. ... | Chini ,, ... | 14,050 | 21·95 | ... | ... | 14,050 | 21·95 | |
| | Pandrabis | Do. ... | Pandrabis ,, ... | 11,358 | 17 75 | ... | ... | 11,358 | 17·75 | |
| | Pabar ... | Do. ... | Pabar, Girian Rupin Forests | 6,355 | 9·93 | ... | ... | 6,355 | 9·93 | |
| | | | Total ... | 1,03,376 | 161·53 | ... | ... | 1,03,376 | 161·53 | |

**Form No. 49.**

AREA OF RESERVED FORESTS, 1889-90.—(continued).

| Division. | Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1889. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1890. | | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | |
| Jhelum. | Jhelum ... | Jhelum ... | Jhelum Reserves ... | 83,963 | 131·10 | ... | 4 (2) | 83,959 | 131·18 | (2) Punjab Govt. Notification No. 312, dated 4th September 1889. |
| | River ... | Do. ... | Reserved Belas | 1,915 | 2·99 | 10(b) | 206(b) | 1,719 | 2·68 | |
| | Talagang ... | Do. ... | Talagang Reserves ... | 24,671 | 38·55 | ... | ... | 24,671 | 38·55 | |
| | Chakwal ... | Do. ... | Chakwal Reserves ... | 14,689 | 22·95 | ... | ... | 14,689 | 22·95 | |
| | Pind Dadan Khan. | Do. ... | Pind Dadan Khan Reserves ... | 68,489 | 107·01 | ... | ... | 68,489 | 107·01 | |
| | | | Total ... | 1,93,727 | 302·69 | 10 | 210 | 1,93,527 | 302·37 | |
| Chenab. | Chenab River | Gujrat ... | Gujrat Reserves ... | 1,697 | 2·65 | 2(b) 1(c) | ... | 1,700 | 2·65 | |
| | Do. ... | Do. ... | Kathala plantation ... | 968 | 1·51 | ... | 80(b) | 888 | 1·39 | |
| | Pubbi ... | Do. ... | Pubbi ... | 25,185 | 39·35 | ... | ... | 25,185 | 39·35 | |
| | Phalian ... | Do. ... | Phalian Reserves ... | 20,006 | 31·26 | ... | ... | 20,006 | 31·26 | |
| | Gujranwala | Gujranwala | Gujranwala Reserves ... | 876 | 1·37 | ... | ... | 876 | 1·37 | |
| | Chenab River | Do. ... | Thatta Faqirulla ... | 1,012 | 1·58 | ... | ... | 1,012 | 1·58 | |
| | Hafizabad... | Do. ... | Hafizabad Reserves ... | 36,997 | 57·81 | ... | ... | 36,997 | 57·81 | |
| | | | Total ... | 86,741 | 135·53 | 3 | 80 | 86,664 | 135·41 | |
| Lahore. | Chunian ... | Lahore ... | Changa Manga Plantation Circle ... | 10,132 | 15·83 | ... | ... | 10,132 | 15·83 | |
| | | | Changa Manga Rakh Circle | 10,041 | 15·69 | ... | ... | 10,041 | 15·69 | |
| | Lahore ... | Do. ... | Shahdera plantation ... | 1,254 | 1·96 | ... | ... | 1,254 | 1·96 | |
| | Do. ... | Do. ... | Carob plantation ... | 23 | 0·04 | ... | ... | 23 | ·04 | |
| | Sharakpur... | Do. ... | Sadhanwali plantation ... | 349 | ·54 | ... | ... | 349 | ·54 | |
| | Do. ... | | Jhoke plantation ... | 2,976 | 4·65 | ... | ... | 2,976 | 4·65 | |
| | Detached ... | Amritsar ... | Amritsar Reserves ... | 2,768 | 4·33 | ... | ... | 2,768 | 4·33 | |
| | | | Total ... | 27,543 | 43·04 | ... | ... | 27,543 | 43·04 | |
| Mooltan. | Serai Sidhu | Mooltan ... | Serai Sidhu Reserves ... | 42,785 | 66·85 | ... | ... | 42,785 | 66·85 | |
| | Lodhran ... | Do. ... | Lodhran Reserves ... | 7,735 | 12·09 | ... | ... | 7,735 | 12·09 | |
| | Mailsi ... | Do. ... | Mailsi Reserves | 28,918 | 45·18 | ... | ... | 28,918 | 45·18 | |
| | | | Total ... | 79,438 | 124·12 | ... | ... | 79,438 | 124·12 | |
| Montgomery. | Gugera ... | Montgomery | Gugera Reserves ... | 22,510 | 35·17 | .... | ... | 22,510 | 35·17 | |
| | Montgomery | Do. ... | Montgomery Reserves ... | 18,607 | 29·07 | ... | ... | 18,607 | 29·07 | |
| | Chichawatni | Do. ... | Chichawatni Reserves ... | 14,618 | 22·84 | ... | ... | 14,618 | 22·84 | |
| | Pakpattan | Do. ... | New Sohag Reserves ... | ... | ... | (3)8,378 | ... | 8,378 | 13·09 | (3) Punjab Government Notification No. 500, dated 2nd October 1889 |
| | | | Total ... | 55,735 | 87·08 | 8,378 | ... | 64,113 | 100·17 | |

**Form No. 49.**

## AREA OF RESERVED FORESTS, 1889-90.—(concluded).

| Division | Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1889. Acres. | Area on 1st April 1889. Equivalent in square miles. | Added during the year. Acres | Excluded or transferred to other heads. Acres | Area on 31st March 1890. Acres. | Area on 31st March 1890. Equivalent in square miles. | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| Ambala. | Phillour ... | Jullundur... | Jullundur Plantation ... | 51 | ·07 | ... | ... | 51 | ·07 | |
| | Do. ... | Do. ... | Phillour Plantation ... | 220 | 34 | ... | ... | 220 | ·34 | |
| | Ludhiana ... | Ludhiana ... | Ludhiana Plantation ... | 197 | 31 | ... | ... | 197 | ·31 | |
| | Do. ... | Ambala ... | Jagadhri Plantation .. | 201 | ·33 | ... | ... | 201 | ·33 | |
| | Kalesar .. | Do. ... | Kalesar Reserve ... | 11,570 | 18·08 | ... | ... | 11,570 | 18·08 | |
| | | | Total ... | 12,239 | 19·13 | ... | ... | 12,239 | 19.13 | |
| Simla. | | Simla ... | Kotgurn ... | 1,454 | 2·29 | ... | ... | 1,454 | 2 29 | |
| | | Do. ... | Kotkhai ... | 6,701 | 10 47 | .. | ... | 6,701 | 10·47 | |
| | | | Total ... | 8,155 | 12 76 | ... | ... | 8,155 | 12 76 | |
| | | | Grand Total .. | 9,82 749 | 1,536 | 1,02,201 | 504 | 10,84,446 | 1,694 | |
| | | Total for 1888-89 ... | | 9,82,005 | 1,535 | 14,358 | 13,704 | 9,82,749 | 1,536 | |

(*a*) Correction of previous returns owing to the most recent Settlement records; (*b*) by river action.
(*c*) Purchased under Land Acquisition Act.

### Abstract of changes during the year.

| | | | Acres. |
|---|---|---|---|
| Area at commencement of year ... ... ... ... | | | 9,82,749 |
| *Added*— | | | |
| By notification ... ... ... | 1,01,572 | | |
| ,, correction of areas ... ... ... | 616 | | |
| ,, river action ... ... ... | 12 | | |
| ,, purchased ... ... ... | 1 | | |
| | | 1,02,201 | |
| *Excluded*— | | | |
| By notification ... ... ... | 4 | | |
| ,, correction of areas ... ... ... | 209 | | |
| ,, river action ... ... ... | 291 | 504 | |
| Net addition ... | | | 1,01,697 |
| Area at close of year ... ... ... ... ... | | | 10,84,446 |

## AREA OF PROTECTED FORESTS, 1889-90.

| Division | Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1889. Acres. | Area on 1st April 1889. Equivalent in square miles. | Added during the year. Acres | Excluded or transferred to other heads. Acres | Area on 31st March 1890. Acres. | Area on 31st March 1890. Equivalent in square miles. | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| Rawalpindi. | Fatehjang | Rawalpindi | Kala Chitta... | 93,194 | 145 62 | ... | 93,194(*a*) | ... | ... | PunjabGovt. Notification No. 24, dated 21st January 1890. |
| | Murree ... | Do. ... | Murree Protected Forests. | 23,312 | 36 27 | ... | 26 (*b*) | 23,186 | 36 23 | |
| | Kahuta ... | Do. ... | Kahuta ,, ... | 20,126 | 31·45 | ... | 3 (*b*) | (*d*)20,123 | 31·44 | |
| | | | Total ... | 1,36,532 | 213 34 | ... | 93,223 | 43,309 | 67·67 | |
| Chenab. | Hafizabad... | Gujranwala | Hafizabad Protected Forests. | 1,86,068 | 290 73 | ... | 168 (*c*) | 1,85,900 | 290 47 | |
| | | | Total ... | 1,86,068 | 290 73 | ... | 168 | 1,85,900 | 290 47 | |
| | | | Grand Total | 3,22,600 | 504 | ... | 93,391 | 2,29,209 | 358 | |
| | | Grand Total for 1888-89... | | 3,23,113 | 505 | ... | 513 | 3,22,600 | 504 | |

(*a*). Transferred to Reserves.
(*b*). Correction of previous returns; error discovered in Settlement records.
(*c*). Transferred to Canal Department by Punjab Government No. 48, dated 28th May 1889.
(*d*). Includes 50 acres given to Sahib Singh, see Commissioner and Superintendent, Rawalpindi's No. 2860 of 24th November 1887.

### Abstract of changes during the year.

| | | | Acres. |
|---|---|---|---|
| Area at commencement of year ... ... ... ... | | | 3,22,600 |
| *Excluded*— | | | |
| By notification ... ... ... .. | 93,194 | | |
| ,, correction of areas ... ... ... | 29 | | |
| ,, transfer to Canal Department ... ... ... | 168 | | |
| | | | 93,391 |
| Area at close of year ... ... ... ... | | | 2,29,209 |

**Form No. 49.**

## AREA OF UNCLASSED STATE FORESTS, 1889-90.

| Division. | Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1889. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1890. | | No. and date of Notification of addition or transfer. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | |
| Rawalpindi. | Kahuta ... | Rawalpindi | Kahuta Range Rakhs undemarcated | 82,800 | 129·38 | ... | ... | 82,800 | 129·38 | |
| | Murree ... | Do. ... | Murree Range Rakhs undemarcated | 73,400 | 114·69 | ... | ... | 73,400 | 114·69 | |
| | Attock ... | Peshawar... | Jabba Jhil ... | 580 | ·91 | ... | ... | 580 | ·91 | |
| | | | Total | 1,56,780 | 244·98 | ... | ... | 1,56,780 | 244·98 | |
| Chamba. | River ... | Gurdaspur | Gurdaspur Rakhs ... | 8,882 | 13·88 | ... | ... | 8,882 | 13·88 | |
| | | | Total ... | 8,882 | 13·88 | ... | ... | 8,882 | 13·88 | |
| Kangra. | Dora ... | Kangra ... | Dora Range Rakhs ... | 2,03,569 | 318·07 | ... | ... | 2,03,569 | 318·07 | |
| | Do. ... | Hoshiarpur | Hoshiarpur Rakhs ... | 82,800 | 129·51 | ... | ... | 82,800 | 129·51 | |
| | Nurpur ... | Kangra ... | Nurpur Range Rakhs ... | 91,463 | 142·91 | ... | ... | 91,463 | 142·91 | |
| | | | Total ... | 3,77,922 | 590·49 | ... | ... | 3,77,922 | 590·49 | |
| Kulu. | Upper Kulu | Kangra ... | Upper Kulu Range ... | 71,322 | 111·41 | ... | ... | 71,322 | 111·44 | |
| | Lower Kulu | Do. ... | Lower Kulu Range ... | 25,492 | 39·83 | 1(*a*) | ... | 25,493 | 39·83 | |
| | Inner Seoraj | Do. ... | Inner Seoraj Range ... | 69,903 | 109·22 | ... | ... | 69,903 | 109·22 | |
| | Outer Seoraj | Do. ... | Outer Seoraj Range ... | 58,610 | 91·58 | ... | ... | 58,610 | 91·58 | |
| | Waziri Rupi | Do. ... | Waziri Rupi Range ... | 1,22,787 | 191·85 | ... | ... | 1,22,787 | 191·85 | |
| | | | Lahoul ... | 2,500 | 4·00 | ... | ... | 2,500 | 4·00 | |
| | | | Proposed protected undemarcated State Forests. | 3,90,524 | 610·20 | ... | 94(*b*) | 3,90,430 | 610·05 | |
| | | | Total ... | 7,41,198 | 1,158·12 | 1 | 94 | 7,41,105 | 1,157·97 | |
| Bashahr. | Kilba ... | Simla ... | Kilba ... | 7,885 | 12·32 | ... | 4 | 7,881 | 12·31 | |
| | Kailas ... | Do. ... | Kailas Range | 14,990 | 23·42 | ... | 1 | 14,989 | 23·42 | |
| | Chini ... | Do. ... | Chini Range... | 2,560 | 4·00 | ... | 5 | 2,555 | 3·99 | |
| | Pandrabis... | Do. ... | Pandrabis ... | 20,642 | 32·26 | ... | ... | 20,642 | 32·26 | |
| | Neogli ... | Do. ... | Neogli ... | 5,117 | 7·99 | ... | 5 | 5,112 | 7·98 | |
| | Tranda ... | Do. ... | Tranda ... | 12,548 | 19·61 | ... | 1 | 12,547 | 19·61 | |
| | Pabar ... | Do. ... | Pabar, Rupin and Giri Forests ... | 90,450 | 141·33 | ... | ... | 90,450 | 141·33 | |
| | | | Total ... | 1,54,192 | 240·93 | ... | 16(*b*) | 1,54,176 | 240·90 | |
| Jhelum. | Khushab ... | Shahpur ... | Khushab Rakhs | 1,34,824 | 210·66 | ... | ... | 1,34,824 | 210·66 | |
| | | | Total ... | 1,34,824 | 210·66 | ... | ... | 1,34,824 | 210·66 | |

**Form No. 49.**

## AREA OF UNCLASSED STATE FORESTS, 1889-90.—(concluded).

| Division. | Range | Civil District or Territory. | Name of Forest. | Area on 1st April 1889. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1890. | | No. and date of Notification of addition or transfer |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Acres | Equivalent in square miles | Acres. | Acres | Acres. | Equivalent in square miles. | |
| Chenab. | Hafizabad... | Gujranwala | Hafizabad Rakhs ... | 2,832 | 4·43 | ... | ... | 2,832 | 4 43 | |
| | Chenab River | Do. ... | Belas ... | 1,202 | 1·88 | ... | ... | 1,202 | 1·88 | |
| | Do. ... | Gujrat ... | Do ... | 7,322 | 11 41 | 387 | 34 | 7,675 | 11 99 | |
| | Do. ... | Do ... | Kuthala plantation ... | 0 | 0·01 | ... | 3 | 6 | 0 01 | |
| | Bhera ... | Shahpur ... | Bhera Rakhs .. | 1,42,756 | 223 06 | ... | ... | 1,42,756 | 223 06 | |
| | Chenab River | Sialkot ... | Belas ... | 88 | ·14 | 2 | ... | 90 | 0·14 | |
| | Pabbi ... | Gujrat ... | Jhelum Belas | 431 | 67 | ... | 118 | 313 | 0 49 | |
| | | | Total ... | 1,54,640 | 241 63 | 389 (c) | 155 (c) | 1,54,874 | 242 00 | |
| Lahore. | Chunian ... | Lahore ... | Chunian Rakhs | 1,04,337 | 163 03 | .. | 650 (d) | 1,03,687 | 162·01 | |
| | Lahore ... | Do. ... | Lahore Rakhs | 12,737 | 19 90 | . | ... | 12,737 | 19 90 | |
| | Sharakpur | Do. ... | Sharakpur Rakhs ... | 73,855 | 115 40 | ... | ... | 73,855 | 115 40 | |
| | | | Total ... | 1,90,929 | 298 33 | ... | 650 | 190,279 | 297 31 | |
| Mooltan. | Lodhran ... | Mooltan ... | Lodhran Rakhs | 21,200 | 33 12 | ... | ... | 21,200 | 33 12 | |
| | Mailsi ... | Do ... | Mailsi ... | 17,491 | 27 33 | .. | ... | 17,491 | 27 33 | |
| | | | Makhdum Rashid ... | 310 | ·48 | ... | ... | 310 | ·48 | |
| | Sanawan ... | Muzaffargarh | Sanawan ... | 5,178 | 8 09 | 3,803 (c) | ... | 8,981 | 14 03 | |
| | Muzaffargarh | Do. ... | Muzaffargarh | 10,453 | 16 33 | ... | 22 (c) | 10,431 | 16 30 | |
| | Alipur ... | Do. ... | Alipur .. | 26,817 | 41·90 | 573 (c) | 13 (c) | 27,377 | 42 78 | |
| | Rajanpur ... | D G. Khan | Rajanpur ... | 16,000 | 25 00 | ... | ... | 16,000 | 25·00 | |
| | D G Khan | Do ... | D. G Khan ... | 2,210 | 3 45 | ... | ... | 2,210 | 3·45 | |
| | | | Total ... | 99,659 | 155·70 | 4,376 | 35 | 1,04.000 | 162·49 | |
| Montgomery | Gugera ... | Montgomery | Gugera Rakhs | 2.17,861 | 340 41 | .. | ... | 2,17,861 | 340·41 | |
| | Montgomery | Do ... | Montgomery Rakhs ... | 87,002 | 135·94 | ... | ... | 87,002 | 135 94 | |
| | Chichawatni | Do. ... | Chichawatni Rakhs ... | 1,80,039 | 282·71 | ... | 407 (b) | 1,80,532 | 282 08 | |
| | | | Total ... | 4,85,802 | 759·06 | ... | 407 | 4,85,395 | 758·43 | |
| Ambala. | Sabathu ... | Simla ... | Sabathu ... | 370 | 0 57 | ... | ... | 370 | 0 57 | |
| | Dagshai ... | Do. ... | Dagshai ... | 400 | 0 63 | ... | ... | 400 | 0·63 | |
| | | | Total ... | 770 | 1 20 | ... | ... | 770 | 1 20 | |
| | | | Grand Total. . | 25,05,598 | 3,915 | 4,766 | 1,357 | 25,09,007 | 3 920 | |
| | | Total | for 1888-89 ... | 20,49,687 | 3,203 | 4,79,342 | 23,431 | 25,05,598 | 3,915 | |

(a) Acquired by exchange.
(b). Leased for cultivation
(c). By river action
(d). Alienated as grant by Punjab Government No 167, dated 6th April 1889 .. ... Acres 250
Correction of previous returns .. ... ... ... ... ... 400
(e). By transfer to Canal Department.

### Abstract of changes during the year.

| | | | Acres. |
|---|---|---|---|
| Area at commencement of year ... ... ... ... ... | | | 25,05,598 |
| *Added*— | | | |
| Acquired by exchange ... .. ... | 1 | | |
| By river action ... ... ... ... | 4,765 | | |
| | | 4,766 | |
| *Excluded*— | | | |
| For grants and leases ... ... ... ... | 767 | | |
| By river action ... ... ... | 177 | | |
| „ correction of areas ... ... ... | 400 | | |
| „ transfer to Canal Department ... ... | 13 | | |
| | | 1,357 | |
| Net addition ... ... | | | 3,409 |
| Area at close of year .. ... ... ... | | | 25,09,007 |

**Form No. 50**

## REGISTER OF BREACHES OF FOREST RULES DURING 1889-90.

| Forest Division. | | Cases pending from 1888-89. | New Cases of the Year. | | | | | Total cases. | Disposed of during the Year. | | | | | | Cases pending at close of year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Injury to forest by fire. | Unauthorized felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | Convictions | | Acquittals. | | Total. | | |
| | | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | |
| Hazara Division | A. | 1 | 4 | 66 | 27 | 2 | 99 | 100 | 75 | 214 and 2 villages. | 24 | 129 and 1 village. | 99 | 343 and 3 villages. | 1 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | 3 | 21 | 17 | 1 | 42 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total | ... | 1 | 7 | 87 | 44 | 3 | 141 | 100 | 75 | 214 and 2 villages. | 24 | 129 and 1 village. | 99 | 343 and 3 villages. | 1 |
| Rawalpindi Division | A. | 6 | ... | 46 | 21 | 11 | 78 | 84 | 73 | 247 | 9 | 41 | 82 | 288 | 2 |
| | B. | ... | ... | 124 | 388 | 2 | 514 | 514 | 514 | 1,042 | ... | ... | 514 | 1,042 | ... |
| | C. | ... | 2 | 1 | ... | 1 | 4 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total | ... | 6 | 2 | 171 | 409 | 14 | 596 | 598 | 587 | 1,289 | 9 | 41 | 596 | 1,330 | 2 |
| Chamba Division | A. | 12 | 3 | 13 | 11 | 2 | 29 | 41 | 21 | 70 | 14 | 26 | 35 | 96 | 6 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total | ... | 12 | 3 | 13 | 11 | 2 | 29 | 41 | 21 | 70 | 14 | 26 | 35 | 96 | 6 |
| Kangra Division | A. | 4 | 5 | 40 | 14 | 5 | 64 | 68 | 60 | 126 | 7 | 24 | 67 | 150 | 1 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total | ... | 4 | 5 | 40 | 14 | 5 | 64 | 68 | 60 | 126 | 7 | 24 | 67 | 150 | 1 |
| Kulu Division | A. | 40 | 27 | 63 | 19 | 28 | 137 | 177 | 130 | 571 | 28 | 230 | 158 | 801 | 19 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | ... | 1 | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total | ... | 40 | 27 | 64 | 19 | 28 | 138 | 177 | 130 | 571 | 28 | 230 | 158 | 801 | 19 |
| Bashahr Division | A. | 127 | 46 | 105 | 4 | 48 | 203 | 330 | 121 | 171 | 18 | 26 | 139 | 197 | 191 |
| | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C. | ... | 1 | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total | ... | 127 | 47 | 105 | 4 | 48 | 204 | 330 | 121 | 171 | 18 | 26 | 139 | 197 | 191 |

**Form No. 50.**

REGISTER OF BREACHES OF FOREST RULES DURING 1889-90—(continued)

| Forest Division. | | Cases pending from 1888-89. | New Cases of the Year. | | | | | | Disposed of during the Year. | | | | | | Cases pending at close of year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Injury to forest by fire. | Unauthorized felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited | Other offences. | Total new cases of the year. | Total cases. | Convictions. | | Acquittals. | | Total. | | |
| | | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | |
| Jhelum Division ... | A. | 6 | ... | 67 | 26 | 10 | 103 | 109 | 88 | 147 | 19 | 60 | 107 | 207 | 2 |
| | B. | .. | ... | 128 | 100 | 7 | 325 | 325 | 325 | 493 | ... | ... | 325 | 493 | ... |
| | C. | ... | 3 | ... | ... | ... | 3 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total .. | | 6 | 3 | 195 | 216 | 17 | 431 | 434 | 413 | 640 | 10 | 60 | 432 | 700 | 2 |
| Chenab Division ... | A. | 74 | 1 | 32 | 51 | 4 | 88 | 162 | 60 | 130 | 59 | 213 | 119 | 343 | 43 |
| | B. | ... | ... | 20 | 7 | 3 | 30 | 30 | 30 | 97 | ... | ... | 30 | 97 | ... |
| | C. | ... | 2 | ... | ... | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | 74 | 3 | 52 | 58 | 7 | 120 | 192 | 90 | 227 | 59 | 213 | 149 | 440 | 43 |
| Lahore Division ... | A. | ... | ... | 7 | 7 | 5 | 19 | 19 | 14 | 44 | 4 | 28 | 18 | 72 | 1 |
| | B. | ... | ... | 3 | 5 | ... | 8 | 8 | 8 | 13 | ... | ... | 8 | 13 | ... |
| | C | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | ... | ... | 10 | 12 | 5 | 27 | 27 | 22 | 57 | 4 | 28 | 26 | 85 | 1 |
| Mooltan Division ... | A | 3 | 2 | 12 | 93 | 3 | 110 | 113 | 88 | 139 | 25 | 53 | 113 | 192 | ... |
| | B. | ... | ... | ... | 3 | ... | 3 | 3 | 3 | 3 | ... | ... | 3 | 3 | ... |
| | C | ... | 2 | 1 | ... | ... | 3 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | 3 | 4 | 13 | 96 | 3 | 116 | 116 | 91 | 142 | 25 | 53 | 116 | 195 | ... |
| Montgomery Division | A | 72 | 3 | 86 | 40 | 5 | 134 | 206 | 110 | 167 | 30 | 103 | 140 | 270 | 66 |
| | B | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | .. | ... | ... | ... |
| | C. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | 72 | 3 | 86 | 40 | 5 | 134 | 206 | 110 | 167 | 30 | 103 | 140 | 270 | 66 |
| Ambala Division ... | A. | 1 | 1 | 30 | 5 | 6 | 42 | 43 | 35 | 39 | 7 | 7 | 42 | 46 | 1 |
| | B. | ... | ... | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | C | .. | 7 | ... | ... | .. | 7 | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | | 1 | 8 | 30 | 5 | 6 | 49 | 43 | 35 | 39 | 7 | 7 | 42 | 46 | 1 |
| Grand Total ... | A | 340 | 92 | 567 | 318 | 129 | 1,106 | 1,452 | 875 | 2,065 and 2 villages. | 244 | 940 and 1 village. | 1,119 | 3,005 and 3 villages | 333 |
| | B. | ... | ... | 275 | 593 | 12 | 880 | 880 | 880 | 1,648 | ... | ... | 880 | 1,648 | ... |
| | C. | ... | 20 | 24 | 17 | 2 | 63 | ... | ... | ... | ... | ... | ... | ... | ... |

*N. B.*—A means cases taken into Court.
B. means cases disposed of under Section 67 of Indian Forest Act, 1878.
C. means undetected cases.

**Form No. 51.**

## AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING THE DRY SEASON 1890,—TO ACCOMPANY REPORT FOR 1889-90.

| Division | Forest Tracts. | Year in which protection commenced. | Area actually protected up to 15th June 1889. | During dry season of 1890 | | | Cost during the season | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected | Failures | Actually protected. | | |
| Hazara ... | Kaghan 2 Reserves ... | 1885 | 8,782 | 9,144 | 0,104 | 40 | 127 | |
| | Siran 3 „ ... | 1885 | 6,507 | 7,298 | 5,393 | 1,905 | 40 | |
| | Khanpur 11 „ ... | 1885 | 8,545 | 8,545 | 5,183 | 3,362 | 44 | |
| | Total ... | ... | 23,894 | 24,987 | 10,680 | 5,307 | 211 | |
| Rawalpindi ... | Murree 20 reserves ... | 1885 to 1889 & 1890 | 20,125 | 28,932 | 8,215 | 20,717 | 63 | |
| | „ 21 Protected ... | „ | 10,854 | 17,084 | 1,710 | 15,374 | 37 | |
| | Kahuta 22 reserves ... | 1885 &1890 | 31,513 | 33,068 | 18,103 | 15,865 | 75 | |
| | „ 17 protected ... | 1888 & 1890 | 12,964 | 14,102 | 6,770 | 7,326 | 31 | |
| | Khairimurat ... | 1886 | 13,775 | 14,139 | 39 | 14,100 | 3 | |
| | Kherimar ... | ... | 2,261 | ... | ... | ... | ... | |
| | Margalla ... | 1887 | 18,925 | 19,109 | 200 | 18,909 | 6 | |
| | Total ... | ... | 1,16,417 | 1,27,334 | 35,043 | 92,291 | 215 | |
| Chamba ... | Bakloh ... | 1872 | 643 | 643 | ... | 643 | 57 | |
| | Kalatop and Dadra ... | 1871 | 2,602 | 2,602 | ... | 2,602 | 4 | |
| | Kaiuthli ... | 1882 | 964 | 964 | ... | 964 | 10 | |
| | Surkhigalli ... | 1882 | 306 | 306 | ... | 306 | 91 | |
| | Bannikhet ... | 1874 | 211 | 211 | ... | 211 | | |
| | Shahpur Kandi ... | 1882 | 8,857 | 8,882 | 6 | 8,876 | 101 | |
| | Total ... | ... | 13,583 | 13,608 | 6 | 13,602 | 263 | |
| Kangra ... | Lahora Khas, Jowar Lamba sail and part of Punjal... | 1875 | 1,997 | 2,000 | ... | 2,000 | 36 | |
| | Parts of Chabutra, Dhar Jakh, Hunal, Bakroh, Dhar Sidh & Majhaba... | 1884 | 7,000 | 7,000 | 80 | 6,920 | 81 | |
| | Parts of Bindraban and Karanpur bamboo reserves ... | 1884 | 3,000 | 3,000 | ... | 3,000 | 36 | |
| | Dhamtal reserve ... | 1879 | 624 | 624 | ... | 624 | 15 | |
| | Talara and Kalak reserves | 1882 | 1,044 | 1,044 | ... | 1,044 | 15 | |
| | Mastghar, Batoi and Swarka | 1885 | 587 | 587 | ... | 587 | 15 | |
| | Tatal Mehdhar, Chitril and Jakar reserves ... | 1882 | 3,331 | 3,331 | ... | 3,331 | 15 | |
| | Bindraban reserve ... | 1883 | 617 | 617 | ... | 617 | 15 | |
| | Balah and Soldah reserves | 1887 | 579 | 579 | ... | 579 | 15 | |
| | Hathidar unclassed Forest | 1885 | 1,500 | 1,500 | 300 | 1,200 | 15 | |
| | Unclassed Forests on the sides of road going to Sulyal ... | 1,890 | ... | 1,500 | 135 | 1,365 | 14 | |
| | Total ... | ... | 20,279 | 21,782 | 515 | 21,267 | 272 | |

**Form No. 51.**

AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING THE DRY SEASON 1890,—TO ACCOMPANY REPORT FOR 1889-90.—(concluded)

| Division. | Forest Tracts. | Year in which protection commenced. | Area actually protected up to 15th June 1889. | During dry season of 1890 | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected. | Failures. | Actually protected. | Cost during the season. | |
| Kulu ... | 6 Forests ... | 1885 | 1,280 | 930 | 2 | 928 | 20 | |
| | Daman Kalan and Monalgarh ... | —1888 1890 | ... | 284 | ... | 284 | | |
| | 17 Forests ... | 1888 —1889 | 4,413 | 3,803 | 2 | 3,801 | 38 | |
| | 8 Do. ... | 1885 to 1890 | 10,063 | 11,093 | 900 | 10,193 | 25 | |
| | Total ... | ... | 15,756 | 16,200 | 904 | 15,296 | 83 | |
| Bashahr ... | Runang ... | 1886 | 708 | 708 | ... | 708 | 40 | |
| | Ralli ... | 1887 | 440 | 440 | ... | 440 | 6 | |
| | Total ... | ... | * 1,148 | 1,148 | ... | 1,148 | 46 | * Erroneously omitted in previous returns. |
| Mooltan ... | Lodhran Range (Forests) ... | ... | 3,199 | 4,982 | 8 | 4,974 | 105 | |
| | Muzaffargarh ,, ... | .. | 3,298 | 10,170 | 150 | 10,020 | 37 | |
| | Alipur ,, ... | ... | 20,323 | 19,853 | 1,040 | 18,813 | 192 | |
| | Rajanpur ,, ... | ... | 15,081 | 16,000 | 25 | 15,975 | 252 | |
| | Total ... | ... | 42,801 | 51,005 | 1,223 | 49,782 | 586 | |
| Montgomery ... | Kulera and Darsana ... | 1881 | 6,224 | 4,561 | 9 | 4,552 | 39 | |
| | Mirdad Montgomery Ranjit Singh and Syadwala ... | 1886 | 7,032 | 7,032 | ... | 7,032 | 53 | |
| | Satghara ... | 1887 | ... | 2,077 | ... | 2,077 | 22 | |
| | Chowkian ... | 1888 | 1,566 | ... | ... | ... | .. | |
| | Total ... | ... | 15,422 | 14,270 | 9 | 14,261 | 114 | |
| Ambala ... | Kalesar ... | 1882 | 2,893 | 2,389 | 1,999 | 390 | 404 | |
| | Sabathu and Dagshai ... | 1887 & 1888 | 744 | 770 | 39 | 731 | 105 | |
| | Total ... | ... | 3,637 | 3,159 | 2,038 | 1,121 | 509 | |
| | Grand Total ... | ... | 2,52,937 | 2, 73493 | 59,418 | 2,14,075 | 2,299 | |
| | Total for 1888-89 ... | ... | 2,60,007 | 3,57,515 | 5,726 | 2,51,789 | 2,242 | |

**Form No. 52.**

## AREA OF PLANTATIONS, 1889-90.

| Division. | Name of Plantation. | Area in Acres. On 1st April 1889. | Added during the year. | Excluded during the year. | Area on 31st March 1890. | Receipts. Of the year. | Charges. Of the year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | **Regular Plantations.** | | | | | | | |
| Kulu ... | Manali Forest garden | 5 | ... | ... | 5 | ... | 1 | |
| | Lee garden ... | 4 | ... | ... | 4 | ... | ... | |
| Bashahr ... | Sholtu ... | 6 | ... | ... | 6 | ... | 340 | |
| Jhelum ... | Pira Ghaib ... | 149 | 51 (a) | ... | 200 | ... | 85 | (a)—Includes 47 acres due to re-measurement. |
| | Gandhala ... | 25 | 4 | 4 | 25 | ... | 189 | |
| Chenab ... | Behs Nath and Pindi Tatar ... | 173 | ... | ... | 173 | ... | ... | |
| | Belas Sadhoki ... | 1 | ... | ... | 1 | ... | ... | |
| | Do. Kotli Gohan ... | 8 | ... | ... | 8 | ... | ... | |
| | Do. Thatta Faqirulla | 397 | 15 | ... | 412 | 121 | 124 | |
| | Do. Mohla ... | 3 | ... | 3 | ... | ... | ... | By river action. |
| | Ghazi Chak ... | 5 | ... | ... | 5 | ... | ... | |
| Lahore ... | Changa Manga ... | 9,080 | 15 | 15 | 9,080 | 21,241 | 18,658 | |
| | Shahdera *cum* Jugian | 1,113 | 15 | 15 | 1,113 | 13,400 | 13 | |
| | Sadhanwali ... | 334 | ... | ... | 334 | 164 | ... | |
| | Jhoko ... | 1,014 | 7 | ... | 1,021 | 3,423 | 121 | |
| | Nag ... | 412 | ... | ... | 412 | 309 | ... | |
| | Carob plantation ... | 23 | ... | ... | 23 | 237 | 105 | |
| Ambala ... | Jullundur ... | 51 | .. | ... | 51 | ·166 | ... | |
| | Phillour ... | 220 | 11 | 11 | 220 | 384 | 87 | |
| | Ludhiana ... | 197 | ... | ... | 197 | ... | ... | |
| | Subathu ... | 310 | 45 | 45 | 310 | 1,109 | 258 | |
| | Jagadri ... | 201 | ... | ... | 201 | ... | ... | |
| | Dagshai ... | 400 | 348 | 348 | 400 | 721 | 1,791 | |
| | Total Regular Plantations ... | 14,131 | 511 | 441 | 14,201 | 41,275 | 21,772 | |
| | **Cultural Operations.** | | | | | | | |
| Hazara ... | Changlagali, No. 1 ... | 44 | ... | ... | 44 | ... | ... | ½ acre or 10,000 square feet |
| | Do. No. 3 ... | ... | ... | ... | ... | ... | ... | |
| | Do. Forest house plot ... | 6 | 1 | ... | 7 | ... | 10 | |
| | Kujagali ... | 16 | ... | ... | 16 | ... | ... | |
| | Kutli ... | 10 | ... | ... | 10 | ... | 47 | |
| | Malkandi No. 1 ... | 8 | ... | ... | 8 | ... | ... | |
| | Do. No 2 ... | 2 | ... | ... | 2 | ... | ... | |
| | Do. No. 3 ... | 40 | ... | ... | 40 | ... | ... | |
| | Nuri ... | 5 | ... | ... | 5 | ... | ... | |
| | Mari ... | 5 | ... | ... | 5 | .. | ... | |
| | Karala ... | 3 | ... | ... | 3 | ... | ... | |
| | Makhanyal ... | 2 | ... | ... | 2 | ... | ... | |
| | Gamm-thau { Mola Kiochoi | ... | 42 | ... | 42 | ... | 60 | |
| | Gamm-thau { Sallumar ... | 232 | ... | ... | 232 | ... | 23 | |
| | Do. Kotjundan ... | 132 | ... | ... | 132 | ... | 13 | |
| | Do. Toba Danda | 5 | ... | ... | 5 | ... | ... | |
| | Do. Bijumar .. | 323 | 25 | ... | 348 | ... | 69 | |
| | Tejwah (Meurti) ... | 1 | ... | ... | 1 | ... | 2 | |
| | Shinu, Nuri Khas, Bhagia, Gandaka Nakka and Baggaban | 16 | ... | ... | 16 | ... | ... | |
| | Chambi (Sir) ... | 17 | 2 | ... | 19 | ... | 16 | |
| | Surbeyla Kamalban ... | 32 | 23 | ... | 55 | ... | ... | |
| | Tejwal (Mauji Keri) | 9 | ... | ... | 9 | ... | ... | |
| | 8 Miscellaneous plots | 6 | ... | ... | 6 | ... | ... | |
| | Malkandi, No. 4 ... | 18 | 15 | ... | 33 | ... | 36 | |
| | Nuri, No. 2 ... | | | | | | | |
| | Kamalban ... | 100 | ... | ... | 100 | ... | ... | |
| | Nuri No. 3 ... | | | | | | | |
| | Tejwal Bijuban ... | 5 | ... | ... | 5 | ... | ... | |
| | *Carried over* .. | 1,037 | 109 | ... | 1,146 | ... | 285 | |

**Form No. 52.**

AREA OF PLANTATIONS, 1889-90—(continued).

| Division. | Name of Plantation. | Area in Acres. | | | | Receipts. | Charges | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | On 1st April 1889. | Added during the year. | Excluded during the year. | Area on 31st March 1890. | Of the year. | | |
| | *Brought forward* ... | 1,037 | 108 | ... | 1,145 | ... | 285 | |
| | Cultural Operations.—continued. | | | | | | | |
| | Bagan-Aru-ki Bagla ... | 1 | 4 | 1 | 4 | ... | 24 | |
| | Dungagali-Nathiagali... | 1 | 1 | 1 | 1 | ... | 6 | |
| | Garamthan, Kot Ochar | ... | 26 | 26 | ... | ... | 28 | |
| | Diwan Bela ... | .. | 53 | ... | 53 | ... | 187 | |
| | Tejawal Chachan ... | ... | 3 | ... | 3 | ... | 21 | |
| | Bagan, Kundlagali ... | ... | 9 | ... | 9 | ... | 48 | |
| | Nurseries ... | ... | ... | ... | ... | ... | 240 | |
| | Kerwali, Galian Ochar | ... | 33 | ... | 33 | ... | 38 | |
| Hazara ... | Jawalian-Chohai Ochar | ... | 20 | ... | 20 | ... | 31 | |
| | Darwaza Ohambi. Palak | ... | 3 | ... | 3 | ... | 25 | |
| | Tejwal Mandiali ... | ... | 2 | ... | 2 | ... | 11 | |
| | Darwaza Satnara, Kali Kutli, Rhin ka-nakka. | ... | 10 | ... | 10 | ... | 20 | |
| | Kund Patti ... | ... | 3 | ... | 3 | ... | 75 | |
| | Total ... | 1,039 | 275 | 28 | 1,286 | ... | 1,039 | |
| | Barakao (Margala Reserve) ... | 80 | .. | ... | 80 | ... | 71 | |
| | Pind Gondal (Margala Reserve) ... | 9 | ... | ... | 9 | ... | ... | |
| | Kurang Nadi (Margala Reserve) ... | 6 | ... | ... | 6 | ... | ... | |
| Hawalpindi ... | Athal (Banigala) ... | 13 | ... | ... | 13 | ... | ... | |
| | Khari Murat (Nos. I to X) ... | 30 | ... | ... | 30 | ... | ... | |
| | Kulherta and Bariar | 9 | ... | ... | 9 | ... | ... | |
| | Patriata ... | 2 | ... | ... | 2 | ... | 1 | |
| | Salitha ... | 1 | ... | ... | 1 | ... | ... | |
| | Soribari ... | ... | ... | ... | ... | ... | 28 | 10 acres ground prepared. |
| | Barban ... | ... | ... | ... | ... | ... | 20 | 10 acres sown broad cast. |
| | Total ... | 156 | ... | ... | 156 | ... | 120 | |
| | Pangi various ... | 26 | 38 | ... | 64 | ... | 125 | |
| | Bassu ... | 149 | ... | ... | 149 | ... | ... | |
| | Dhauri ... | 25 | ... | ... | 25 | ... | ... | |
| | Kalatop ... | 263 | 43 | 26 | 280 | ... | 009 | |
| | Kainthli ... | 132 | 35 | 25 | 142 | ... | 202 | |
| Chamba ... | Majour ... | 1 | ... | ... | 1 | ... | ... | |
| | Chorri ... | 2 | ... | ... | 2 | ... | ... | |
| | Padri and Bohar ... | 80 | 20 | ... | 100 | ... | 243 | |
| | Chatri ... | 23 | 37 | 17 | 43 | ... | 202 | |
| | Khanni ... | 5 | ... | ... | 5 | ... | ... | |
| | Sakral ... | 2 | ... | ... | 2 | ... | 1 | |
| | Chadbhent ... | ... | 1 | ... | 1 | ... | 353 | |
| | Total ... | 708 | 174 | 68 | 814 | ... | 1,737 | |
| | Chatril Reserve ... | 46 | 6 | ... | 52 | ... | 7 | |
| | Tatal ,, ... | 80 | 20 | 10 | 90 | ... | 25 | |
| | Bindraban ,, ... | 11 | ... | ... | 11 | ... | ... | |
| | Dhamtal ,, ... | 30 | 20 | 10 | 40 | ... | 64 | |
| | Mehdhar ,, ... | 2 | ... | ... | 2 | ... | ... | |
| Kangra ... | Jhakor, ,, ... | ... | 35 | 10 | 25 | ... | 59 | |
| | Ballah ,, ... | ... | 4 | 1 | 3 | ... | 24 | |
| | Nalian ,, ... | 19 | ... | ... | 19 | ... | ... | |
| | Jamoli ,, ... | 5 | ... | ... | 5 | ... | ... | |
| | Balwal ,, ... | 5 | ... | ... | 5 | ... | ... | |
| | Soulian ,, ... | 262 | 50 | 32 | 280 | ... | 111 | |
| | Tilli ,, ... | 4 | 1 | ... | 5 | ... | 43 | |
| | *Carried over* ... | 470 | 136 | 68 | 543 | ... | 333 | |

**Form No. 52.**

AREA OF PLANTATIONS, 1889-90—(continued).

| Division. | Name of Plantation. | Area in Acres. | | | | Receipts. | Charges. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | On 1st April 1889. | Added during the year. | Excluded during the year. | Area on 31st March 1890. | Of the year. | | |
| | *Brought forward* ... | 470 | 136 | 63 | 543 | ... | 333 | |
| | Cultural Operations—continued. | | | | | | | |
| | Bajori unclassed ... | 6 | ... | ... | 6 | ... | ... | |
| | Baldoa Reserve ... | 7 | ... | ... | 7 | ... | ... | |
| | Badiana ... | 45 | ... | ... | 45 | ... | ... | |
| | Bakaror Reserve ... | 3 | 1 | 4 | ... | ... | 2 | |
| | Hamirpur Trihais ... | 84 | 30 | ... | 114 | ... | 18 | |
| | Harapoo Reserve ... | 15 | 15 | 5 | 25 | ... | 99 | |
| | Bindraban ,, ... | 4 | 2 | 1 | 5 | ... | 3 | |
| | Darang ,, ... | 5 | 25 | 10 | 20 | ... | 35 | |
| Kangra ... | Habrol ,, ... | 8 | ... | ... | 8 | ... | ... | |
| | Panjal ,, ... | 4 | ... | ... | 4 | ... | ... | |
| | Lohara ... | 42 | 12 | 4 | 50 | ... | 21 | |
| | Baghrian Reserve ... | 500 | ... | ... | 500 | ... | ... | |
| | Mullanwal ,, ... | 30 | ... | 5 | 25 | ... | ... | River action. |
| | Dharni ... | 1 | ... | ... | 1 | ... | ... | |
| | Bharnal ... | 1 | ... | 1 | ... | ... | ... | |
| | Tiri ... | 1 | ... | 1 | ... | ... | ... | |
| | Nurpur fruit nursery | 1 | ... | ... | 1 | ... | 9 | |
| | Dera ,, ... | 1 | ... | ... | 1 | ... | 8 | |
| | Total ... | 1,228 | 221 | 94 | 1,355 | ... | 528 | |
| | Dungri ... | 34 | ... | ... | 34 | ... | ... | |
| | Manalghan ... | 53 | ... | ... | 53 | ... | ... | |
| | Dana Bial ... | 27 | ... | ... | 27 | ... | ... | |
| | Sial Bial ... | 66 | ... | ... | 66 | ... | ... | |
| | Manalgahr ... | 41 | ... | ... | 41 | ... | ... | |
| | Bai Padri ... | 12 | ... | ... | 12 | ... | ... | |
| | Dani Deo ... | 30 | 3 | ... | 33 | ... | 21 | |
| | Chasal, Upper ... | 14 | 1 | 1 | 14 | ... | 5 | |
| | ,, lower ... | 4 | 1 | ... | 5 | ... | 12 | |
| | Shalingar ... | 35 | ... | ... | 35 | ... | ... | |
| | Dudlu ... | 53 | 3 | 3 | 53 | ... | 12 | |
| | Brunudhar ... | 22 | 6 | 6 | 22 | ... | 14 | |
| | Padi Chalaon ... | 14 | 1 | 1 | 14 | ... | 2 | |
| | Batar Bial ... | 5 | ... | ... | 5 | ... | ... | |
| | Deoban ... | 12 | 6 | ... | 18 | ... | 17 | |
| | Seani ... | 3 | 3 | ... | 6 | ... | 9 | |
| | Phetaban ... | 1 | ... | ... | 1 | ... | ... | |
| | Ledi Chalaon ... | 2 | ... | ... | 2 | ... | 2 | Nursery. |
| | Shejuni ... | 6 | 2 | 2 | 6 | ... | 14 | |
| | Sandhar ... | 5 | ... | ... | 5 | ... | 1 | ,, |
| | Bindraban Shamshi ... | 2 | ... | 2 | ... | ... | ... | |
| | ,, Jerri ... | 24 | ... | ... | 24 | ... | ... | |
| Kulu ... | Soma Chalaon ... | 49 | 10 | ... | 59 | ... | 42 | |
| | Phulga ... | 15 | ... | ... | 15 | ... | ... | |
| | Daogi ... | 2 | 2 | ... | 4 | ... | 23 | |
| | Latura ... | 42 | ... | ... | 42 | ... | ... | |
| | Blajdhar ... | 9 | ... | ... | 9 | ... | ... | |
| | Solano ... | 8 | 4 | 4 | 8 | ... | 20 | |
| | Bamgarh ... | 3 | 2 | .. | 5 | ... | 8 | |
| | Silla ... | 5 | 3 | 3 | 5 | ... | 32 | |
| | Phone ... | 9 | 4 | 4 | 9 | ... | 6 | |
| | Gogarsil ... | 3 | 2 | 2 | 3 | ... | 11 | |
| | Baker Kiara ... | 5 | .. | 5 | ... | ... | ... | |
| | Lot ... | 1 | ... | ... | 1 | ... | 1 | Nursery. |
| | Fojal Kalaun ... | 6 | 2 | 2 | 6 | ... | 11 | |
| | Kushol ... | 1 | 5 | ... | 6 | ... | 20 | |
| | Manglaur ... | 2 | ... | 2 | ... | ... | ... | |
| | Ratho ... | 30 | ... | ... | 30 | ... | ... | |
| | Jibi ... | 3 | 3 | 3 | 3 | ... | 18 | |
| | Bagi ... | 3 | ... | ... | 3 | ... | ... | |
| | Devi-di-Jhir ... | 5 | ... | ... | 5 | ... | ... | |
| | Setadhag ... | 7 | 4 | ... | 11 | ... | 23 | |
| | Rehni ... | ... | 6 | ... | 6 | ... | 43 | |
| | Lombau ... | ... | ... | ... | ... | ... | 5 | Nursery and 4 acres broadcast sowing. |
| | Dulkhri ... | ... | 10 | ... | 10 | ... | 45 | |
| | *Carried over* ... | 673 | 83 | 40 | 716 | ... | 417 | |

**Form No. 52.**

## AREA OF PLANTATIONS, 1889-90.—(continued).

| Division. | Name of Plantation. | Area in Acres. On 1st April 1889. | Added during the year. | Excluded during the year. | Area on 31st March 1890. | Receipts. Of the year. | Charges. Of the year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | *Brought forward* ... | 673 | 83 | 40 | 716 | ... | 417 | |
| | Cultural Operations —continued. | | | | | | | |
| Kulu ... | Hagahe ... | ... | 8 | ... | 8 | ... | 30 | |
| | Sawani ... | ... | 7 | ... | 7 | ... | 25 | |
| | Tandi ... | ... | 10 | ... | 10 | ... | 43 | |
| | Gya ... | ... | 1 | ... | 1 | ... | 6 | |
| | Kot ... | ... | ... | ... | ... | ... | 2 | |
| | Drad ... | ... | ... | ... | ... | ... | 6 | |
| | Dheon Kaniali ... | ... | ... | ... | ... | ... | 18 | 20 acres broad cast sowings. |
| | Nagar compound ... | ... | ... | ... | ... | ... | 9 | Experiments. |
| | Total ... | 673 | 109 | 40 | 742 | ... | 505 | |
| Bashahr ... | Nachar, East ... | 146 | ... | ... | 146 | ... | 34 | |
| | Rumang ... | 33 | 3 | ... | 36 | ... | 156 | |
| | Sutlej and Kum Kum ... | 240 | 10 | ... | 250 | ... | 174 | |
| | Kanhai ... | 2 | 2 | ... | 4 | ... | 24 | |
| | Kilba ... | 37 | ... | ... | 37 | ... | 8 | |
| | Derkali and Kashapat ... | 4 | ... | ... | 4 | ... | ... | |
| | Taranda ... | 4 | ... | ... | 4 | ... | ... | |
| | Gutrang ... | 12 | ... | ... | 12 | ... | ... | |
| | Nachar, West ... | 5 | ... | ... | 5 | ... | ... | |
| | Tanglang ... | 8 | ... | ... | 8 | ... | ... | |
| | Jani ... | 10 | ... | ... | 10 | ... | 1 | |
| | Panwi ... | 9 | ... | ... | 9 | ... | ... | |
| | Kulba ... | 2 | ... | ... | 2 | ... | ... | |
| | Junpan-Phinla ... | 13 | ... | ... | 13 | ... | 2 | |
| | Tikru Wasankan ... | 11 | 1 | ... | 12 | ... | 3 | |
| | Punang ... | 10 | ... | ... | 10 | ... | 32 | |
| | Bannoli ... | 1 | ... | 1 | ... | ... | ... | |
| | Ralli ... | 3 | 3 | ... | 6 | ... | 30 | |
| | Shimolang ... | ... | 5 | ... | 5 | ... | 23 | |
| | Jangi Kirang ... | ... | 5 | ... | 5 | ... | ... | |
| | Buling ... | ... | 4 | ... | 4 | ... | ... | |
| | Shil ... | ... | 1 | ... | 1 | ... | 12 | |
| | Total ... | 550 | 34 | 1 | 583 | ... | 502 | |
| Jhelum ... | Ban Faqirulla ... | 2 | 1 | ... | 3 | ... | 23 | |
| | Garat ... | 7 | 3 | ... | 10 | ... | 41 | |
| | Diljabba ... | ... | 7 | ... | 7 | ... | 9 | |
| | Tilla ... | ... | ... | ... | ... | ... | 51 | |
| | Total ... | 9 | 11 | ... | 20 | ... | 124 | |
| Chenab ... | Pabbi ... | 781 | 20 | 50 | 751 | 65 | 204 | |
| | Kikranwali ... | 2 | ... | 2 | ... | ... | 2 | |
| | Chichra ... | 7 | ... | 7 | ... | ... | 5 | |
| | Tibbi Tarar ... | 2 | ... | 2 | ... | ... | ... | |
| | Gujranwala Rakhs ... | 3 | ... | 3 | ... | ... | ... | |
| | Ishar ... | 29 | 15 | ... | 44 | ... | 33 | |
| | Deowal ... | 44 | 17 | ... | 61 | ... | 83 | |
| | Pakhowal ... | ... | 15 | ... | 15 | ... | 78 | |
| | Wazirabad Nursery ... | ... | ... | ... | ... | ... | 14 | |
| | Total ... | 868 | 67 | 64 | 871 | 65 | 568 | |

**Form No. 52.**

## AREA OF PLANTATIONS, 1889-90.—(concluded).

| Division. | Name of Plantation. | Area in acres. On 1st April 1889. | Added during the year. | Excluded during the year. | Area on 31st March 1890. | Receipts. Of the year. | Charges. Of the year. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | CULTURAL OPERATIONS.—concluded. | | | | | | | |
| Lahore ... | Kot Lakhpat ... | 220 | 25 | 25 | 220 | 319 | 352 | |
| | Dhig ... | 45 | ... | ... | 45 | ... | ... | |
| | Total ... | 265 | 25 | 25 | 265 | 319 | 352 | |
| Mooltan ... | Makhan Bela ... | 2 | 1 | ... | 3 | .. | 46 | |
| | Makhdumpur-Vinoi ... | 100 | 1 | ... | 101 | ... | 48 | |
| | Nauraja Bhuta ... | 8 | ... | .. | 8 | ... | ... | |
| | Dhamerwala ... | 6 | 8 | 6 | 8 | ... | 8 | |
| | Kureshi ... ... | 325 | 5 | 2 | 328 | ... | 12 | |
| | Jalwala ... ... | 2 | ... | .. | 2 | ... | ... | |
| | Bakaini ... ... | 10 | 60 | 50 | 20 | ... | 15 | |
| | Dandewala ... | 5 | 5 | 4 | 6 | ... | 3 | |
| | Ranuja ... ... | 5 | ... | ... | 5 | ... | ... | |
| | Sohni ... ... | 40 | ... | ... | 40 | ... | ... | |
| | Alipur Tofapur ... | 1 | 3 | 1 | 3 | ... | 5 | |
| | Arbi ... ... | ... | 2 | 1 | 1 | ... | 25 | |
| | Shujaitpur ... | ... | 10 | 9 | 1 | ... | 34 | |
| | Jhelarian... ... | ... | 16 | 10 | 6 | ... | 7 | |
| | Isanwala ... ... | ... | 12 | 10 | 2 | ... | 8 | |
| | Diwan Sahib ... | ... | 20 | 16 | 4 | ... | 13 | |
| | Chhina Malana ... | ... | 5 | 4 | 1 | ... | 2 | |
| | Akil ... ... | ... | 1 | ... | 1 | ... | 30 | |
| | Pakka Haji Majid ... | ... | 1 | ... | 1 | ... | 30 | |
| | Dhaushikani ... | ... | 15 | 14 | 1 | ... | 2 | |
| | Total ... | 504 | 165 | 127 | 542 | ... | 288 | |
| Montgomery ... | Okara ... ... | 24 | ... | 2 | 22 | ... | ... | |
| | Total ... | 24 | ... | 2 | 22 | ... | ... | |
| Ambala ... | Kalesar Nursery ... | ... | ... | ... | ... | ... | 50 | ¼ acre Nursery. |
| | Total ... | ... | ... | ... | ... | ... | 50 | |
| | Total of Cultural Operations for the Province ... ... | 6,024 | 1,081 | 440 | 6,656 | 384 | 5,874 | |
| | Grand Total of Plantations and Cultural Operations ... | 20,155 | 1,592 | 890 | 20,857 | 41,059 | 27,646 | |

### ABSTRACT OF CHANGES IN AREA OF PLANTATIONS.

| | | | | Acres. |
|---|---|---|---|---|
| | *Total Plantations of all Classes* ... ... ... ... | | | 20,155 |
| *Add*— | Work actually done during the year ... ... | 1,540 | | |
| | By remeasurement ... ... ... | 43 | | |
| | | | 1,592 | |
| *Deduct*— | Failures struck off ... ... ... ... | 882 | | |
| | Lost by river action ... ... ... | 8 | | |
| | | | 890 | |
| | *Net Addition* ... ... ... | | | 702 |
| | *Total of all Classes on 31st March* 1890 ... ... ... ... | | | 20,857 |

### ABSTRACT OF CHARGES.

| | Rs. | | |
|---|---|---|---|
| Cost of Regular Plantations ... ... ... | 21,772 | | |
| „ of Cultural Operations ... ... ... | 5,874 | | |
| | | 27,646 | |
| Add cost of seed, &c. ... ... ... | 357 | | |
| | | 357 | |
| | | 28,003 | |
| Deduct expenditure debited to A. VIII *f.* in Hazara, Rawalpindi, Chamba, Bashahr and Chenab ... ... ... ... | | 87 | |
| Expenditure under A VIII *d.* as per Form 58 ... ... ... | | 27,916 | |

**Form No. 54.**

## OUTTURN (IN CUBIC FEET, SOLID) OF TIMBER AND FUEL DURING THE YEAR 1889-90 AND AGENCY OF EXPLOITATION.

| Division. | Timber in the rough; Logs. | | | | | Timber in the rough; Poles. | | | | | Sawn or squared Timber. | | | | | Miscellaneous. | | | | | Fuel. | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government. | Purchasers. | Free Grantees. | Right-holders. | Total. | Government. | Purchasers. | Free Grantees. | Right-holders. | Total. | Government. | Purchasers. | Free Grantees. | Right-holders. | Total. | Government. | Purchasers. | Free Grantees. | Right-holders. | Total. | Government. | Purchasers. | Free Grantees. | Right-holders. | Total. | Outturn. |
| | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. |
| **I.—RESERVED FORESTS** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hazara ... | 74,120 | ... | ... | ... | 74,120 | ... | 33,535 | ... | ... | 33,535 | 19,717 | ... | ... | ... | 19,717 | 50 | 2,120 | ... | ... | 2,170 | 17,341 | 65,280 | (a) 5,940 | (b) 34,980 | 1,43,541 | 2,73,083 |
| Rawalpindi ... | ... | 43,994 | ... | 60 | 44,054 | ... | 6,948 | ... | 100 | 7,048 | ... | 42 | ... | ... | 42 | ... | 21 | ... | ... | 21 | ... | 5,20,965 | ... | 4,37,572 | 9,58,537 | 10,09,703 |
| Chamba ... | 33,536 | 60 | ... | 11,528 | 45,124 | 483 | 84 | ... | 241 | 808 | 1,03,911 | ... | ... | ... | 1,03,911 | 87 | ... | ... | ... | 87 | ... | 97,551 | ... | ... | 97,551 | 2,47,481 |
| Kangra ... | ... | 42,881 | ... | ... | 42,581 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,920 | ... | ... | 1,920 | 44,601 |
| Bashahr ... | 2,95,458 | ... | ... | ... | 2,95,458 | ... | ... | ... | ... | ... | 36,334 | ... | ... | ... | 36,334 | 5,040 | ... | ... | ... | 5,040 | ... | ... | ... | ... | ... | 3,36,832 |
| Jhelum ... | ... | 874 | ... | ... | 874 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,815 | 3,714 | 50,343 | 3,42,735 | 3,98,607 | 3,99,481 |
| Chenab ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 21,645 | ... | ... | 21,645 | 21,645 |
| Lahore ... | 43,161 | 7,916 | ... | ... | 51,077 | 577 | 10 | ... | ... | 587 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4,19,341 | 56,192 | ... | ... | 4,75,533 | 5,27,197 |
| Mooltan ... | ... | ... | ... | ... | ... | ... | 3,323 | ... | ... | 3,323 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5,14,354 | 3,80,420 | ... | ... | 8,94,774 | 8,98,097 |
| Montgomery ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 35 | ... | ... | 35 | 4,03,543 | 4,80,160 | ... | ... | 8,91,703 | 8,91,738 |
| Ambala ... | ... | ... | ... | ... | ... | 293 | ... | ... | ... | 293 | ... | ... | ... | ... | ... | ... | 208 | ... | ... | 208 | 7 | 2,115 | ... | ... | 2,122 | 2,623 |
| Total .. | 4,46,275 | 95,725 | ... | 11,588 | 5,53,588 | 1,353 | 43,900 | ... | 341 | 45,594 | 1,59,962 | 42 | ... | ... | 1,60,004 | 5,177 | 2,384 | ... | ... | 7,561 | 13,56,401 | 16,57,962 | 56,283 | 8,15,287 | 38,85,933 | 46,52,680 |
| **II.—PROTECTED FORESTS.** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rawalpindi ... | ... | 46,492 | ... | 3,500 | 49,992 | ... | 1,113 | ... | 1,400 | 2,513 | ... | 36 | ... | ... | 36 | ... | 99 | ... | ... | 99 | ... | 24,959 | ... | 24,98,226 | 25,23,185 | 25,75,825 |
| Chenab ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5,21,085 | ... | ... | 5,21,085 | 5,21,085 |
| Total ... | ... | 46,492 | ... | 3,500 | 49,992 | ... | 1,113 | ... | 1,400 | 2,513 | ... | 36 | ... | ... | 36 | ... | 99 | ... | ... | 99 | ... | 5,46,044 | ... | 24,98,226 | 30,44,270 | 30,96,910 |

## III.—UNCLASSED FORESTS.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rawalpindi ... | ... | 4,220 | ... | 77,200 | 81,420 | ... | 666 | ... | 26,392 | 27,060 | ... | 440 | ... | ... | 440 | ... | 34 | ... | ... | 34 | ... | 634 | ... | ... | 634 | 1,09,718 |
| Kangra ... | ... | 44,936 | ... | 1,68,166 | 2,13,104 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2,892 | ... | 6,054 | 8,746 | 2,21,850 |
| Kulu ... | 37,021 | ... | ... | ... | 37,021 | ... | 2,506 | ... | ... | 2,506 | 44,309 | ... | ... | ... | 44,309 | 2,060 | 41,437 | 16,609 | 8,81,105 | 9,41,210 | ... | 3,176 | ... | 1,38,70,000 | 1,38,73,176 | 1,48,97,232 |
| Bashahr ... | ... | ... | ... | ... | ... | ... | ... | 5,43,760 | ... | 5,43,760 | ... | ... | 1,27,300 | ... | 1,27,300 | ... | ... | ... | ... | ... | ... | ... | ... | 18,25,000 | 18,25,000 | 24,96,060 |
| Jhelum ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 546 | 12,591 | 2,70,000 | 2,83,137 | 2,83,137 |
| Chenab ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3,32,651 | ... | ... | 3,32,651 | 3,32,651 |
| Lahore ... | 112 | 339 | ... | ... | 451 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 998 | 2,584 | 2,758 | ... | 6,308 | 6,759 |
| Mooltan ... | ... | ... | ... | ... | ... | ... | 3,945 | ... | ... | 3,945 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 22,769 | ... | ... | 22,769 | 26,714 |
| Montgomery ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3,370 | ... | ... | 3,370 | 5,32,173 | 3,37,705 | ... | ... | 8,90,178 | 8,93,548 |
| Ambala ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 192 | ... | ... | 192 | ... | ... | ... | ... | ... | 192 |
| TOTAL ... | 37,133 | 49,497 | ... | 2,45,366 | 3,31,996 | ... | 7,059 | 5,43,760 | 26,392 | 5,77,211 | 44,309 | 440 | 1,27,300 | ... | 1,72,049 | 2,060 | 45,033 | 16,609 | 8,81,105 | 9,44,806 | 5,53,439 | 7,01,937 | 15,349 | 1,59,71,054 | 1,72,41,809 | 1,92,67,871 |

## ABSTRACT.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reserved Forests | 4,46,275 | 95,735 | ... | 11,588 | 5,53,598 | 1,353 | 43,900 | ... | 341 | 45,594 | 1,59,962 | 43 | ... | ... | 1,60,004 | 5,177 | 2,384 | ... | ... | 7,561 | 13,56,401 | 16,57,962 | 56,263 | 8,15,237 | 28,86,933 | 46,52,659 |
| Protected „ | ... | 46,492 | ... | 3,500 | 49,992 | ... | 1,113 | ... | 1,400 | 2,513 | ... | 36 | ... | ... | 36 | ... | 99 | ... | ... | 99 | ... | 5,48,044 | ... | 24,93,226 | 30,44,270 | 30,96,910 |
| Unclassed „ | 37,133 | 49,497 | ... | 2,45,366 | 3,31,996 | ... | 7,059 | 5,43,760 | 26,392 | 5,77,211 | 44,309 | 440 | 1,27,300 | ... | 1,72,049 | 2,060 | 45,033 | 16,609 | 8,81,105 | 9,44,806 | 5,53,439 | 7,01,937 | 15,349 | 1,59,71,054 | 1,72,41,809 | 1,92,67,871 |
| TOTAL ... | 4,83,408 | 1,91,714 | ... | 2,60,454 | 9,35,576 | 1,353 | 52,072 | 5,43,760 | 28,133 | 6,25,318 | 2,04,271 | 518 | 1,27,300 | ... | 3,32,089 | 7,237 | 47,516 | 16,609 | 8,81,105 | 9,52,466 | 19,09,840 | 29,05,973 | 71,612 | 1,92,84,567 | 2,41,72,012 | 2,70,17,461 |

Fuel, Government Agency—37,98,944 cubic feet, Firewood entered in Form 56 under head "Received from forests during the year," equals to 19,09,840 cubic feet solid entered in this Form.

(1) *Hazara Division*—(a). Punjab Government No. 417, dated 30th August 1888.
(b). Dry fallen firewood collected off 3,220 acres granted at Settlement, value Rs. 590; 675 acres having been omitted last year.

(2) *Rawalpindi Division*—1,08,652 cubic feet timber, value Rs. 7,633-13-0 and 29,35,798 cubic feet solid firewood, value Rs. 68,923-7-0 removed by right holders and used for domestic purposes.

(3) *Chamba Division*—11,769 cubic feet timber removed by right-holders and Pangi people, value Rs 1,054.

(4) *Kangra Division*—1,68,166 cubic feet timber and 6,054 cubic feet solid firewood given to right-holders, estimated value Rs. 8,981.

(5) *Kulu Division*—16,609 cubic feet timber given free of charge for Local Public Works. and 1,47,51,105 cubic feet timber and firewood removed by right-holders for building and other domestic purposes.

(6) *Bashahr Division*—18,25,000 cubic feet solid firewood and 6,71,060 cubic feet timber given to right-holders and as free grants respectively for Building, Agricultural and other domestic purposes.

(7) *Jhelum Division*—Firewood under free grantees and right-holders was removed by members of the Salt Department and villagers residing in the vicinity of forests for their household consumption and by Civil Officers when on tour inspection.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Free Grants ... | ... | ... | ... | ... | ... | ... | Value | Rs. | 2,517. |
| Right-holders ... | ... | ... | ... | ... | ... | ... | „ | „ | 23,281. |

(8) *Lahore Division*—2,758 cubic feet firewood removed by Mahant of Bhai Pheru.

**Form No. 55.**

## OUTTURN OF MINOR FOREST PRODUCE DURING THE YEAR 1889-90.

| Division. | Description of Produce. | Produce removed or Utilized. | | | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government Agency. | | By Purchasers. | | By Free Grants. | | By Right-holders. | | Total. | | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | |
| | | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | |
| | **RESERVED FORESTS.** | | | | | | | | | | | |
| Hazara ... | Grazing by leases (acres) ... | ... | ... | 35,402 | 1,162 | ... | ... | ... | ... | 35,402 | 1,162 | |
| | ,, by settlement (acres) ... | ... | ... | ... | ... | ... | ... | 10,422 | 357 | 10,422 | 357 | |
| | ,, by permit (No. of cattle) ... | ... | ... | 3,669 | 909 | ... | ... | ... | ... | 3,669 | 909 | |
| | Grass cutting by lease (acress) ... | ... | ... | 60,069 | 4,019 | ... | ... | ... | ... | 60,069 | 4,019 | |
| | ,, ,, by permits (loads) ... | ... | ... | 62,124 | 2,190 | 1,500 | 21 | ... | ... | 63,624 | 2,211 | |
| | ,, ,, ,, (men) ... | ... | ... | 96 | 178 | ... | ... | ... | ... | 96 | 178 | |
| | ,, ,, by settlement (acres) ... | ... | ... | ... | ... | ... | ... | 3,072 | 276 | 3,072 | 276 | |
| | Leaf-fodder by ,, ( ,, ) ... | ... | ... | ... | ... | ... | ... | 446 | 50 | 446 | 50 | |
| | Grass (maunds) ... | 160 | 40 | ... | ... | ... | ... | ... | ... | 160 | 40 | |
| | Turpentine (maunds) ... | 1 | 6 | ... | ... | ... | ... | ... | ... | 1 | 6 | |
| | Kuth roots (maunds) ... | 2 | 21 | ... | ... | ... | ... | ... | ... | 2 | 21 | |
| | Kalbir (maunds) .. | 6 | 36 | ... | ... | ... | ... | ... | ... | 6 | 36 | |
| | Chir bark (maunds) ... | ... | ... | 75 | 38 | ... | ... | ... | ... | 75 | 38 | |
| | Imli and Bhan leaves (maunds) ... | ... | ... | 114 | 28 | ... | ... | ... | ... | 114 | 28 | |
| | Deodar bark (maunds) ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ½ maund removed by purchasers @ 4 annas. |
| | Mushk bala (maunds) ... | ... | ... | 40 | 20 | ... | ... | ... | ... | 40 | 20 | |
| | Other minorproduce ... | ... | 1 | ... | 19 | ... | ... | ... | ... | ... | 20 | |
| Rawalpindi ... | Grazing and grass cutting by leases (acres) ... | ... | ... | 68,106 | 4,245 | ... | ... | ... | ... | 68,106 | 4,245 | |
| | ,, by permits (No. of cattle) ... | ... | ... | 2,592 | 111 | ... | ... | ... | ... | 2,592 | 111 | |
| | ,, (No. of cattle) ... | ... | ... | ... | ... | ... | ... | 26,071 | 34,914 | 26,071 | 34,914 | |
| | Grass cutting (maunds) ... | ... | ... | ... | ... | ... | ... | 1,58,566 | 5,127 | 1,58,566 | 5,127 | |
| | ,, by permits (maunds) ... | .. | ... | 16,200 | 240 | ... | ... | .. | ... | 16,200 | 240 | |
| | ,, ,, (loads) ... | ... | ... | 50 | 2 | ... | ... | ... | ... | 50 | 2 | |
| | Bamboos (No.) ... | ... | ... | 500 | 25 | ... | ... | ... | ... | 500 | 25 | |
| | Sanatha (loads) ... | ... | ... | 537 | 261 | ... | ... | ... | ... | 537 | 261 | |
| | Babar grass (maunds) ... | ... | ... | 96 | 8 | ... | ... | ... | ... | 96 | 8 | |
| | Aola leaves ( ,, ) ... | ... | ... | 301 | 75 | ... | ... | ... | ... | 301 | 75 | |
| | Other minor produce ... | ... | ... | ... | 66 | ... | ... | ... | ... | ... | 66 | |
| Chamba ... | Grass (maunds) ... | ... | ... | 11,607 | 363 | ... | ... | ... | ... | 11,607 | 363 | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KANGRA ... | Grazing (acres) | ... | ... | ... | 960 | 41 | ... | ... | ... | ... | 960 | 41 | | |
| | Grass cutting ( „ ) | ... | ... | ... | 29,400 | 2,097 | ... | ... | ... | ... | 29,400 | 2,097 | | |
| | Bamboos (No.) | ... | 6,38,420 | 11,911 | 2,006 | 30 | ... | ... | ... | ... | 6,40,426 | 11,941 | | |
| | Other minor produce | ... | ... | ... | ... | 24 | ... | ... | ... | ... | ... | 24 | | |
| JHELUM ... | Grazing by leases (acres) | ... | ... | ... | 89,481 | 3,042 | ... | .. | .. | ... | 89,481 | 3,042 | | |
| | „ by settlement (cattle) | ... | ... | ... | ... | ... | 33 | 2 | 17,655 | 1,605 | 17,688 | 1,607 | | |
| | Grass cutting by lease (acres) | ... | ... | ... | 79,977 | 3,720 | ... | ... | ... | ... | 79,977 | 3,720 | | |
| | Grazing by permits (cattle) | ... | ... | ... | 3,039 | 1,271 | ... | ... | ... | ... | 3,039 | 1,271 | | |
| | Grass cutting by permits (No. of permits) | ... | ... | ... | 24 | 12 | 10 | 120 | ... | ... | 34 | 132 | | |
| | Ditto. (loads) | ... | ... | .. | 301 | 345 | ... | ... | ... | ... | 301 | 345 | Head loads = 283 | |
| | Grazing (No. of cattle) | ... | ... | ... | ... | ... | 11 | 66 | ... | ... | 11 | 66 | Pony „ = 18 | |
| | Grass (maunds) | ... | 584 | 178 | ... | ... | 56 | 18 | ... | ... | 640 | 196 | | |
| | Kahi „ | ... | ... | ... | 1,000 | 100 | ... | ... | ... | ... | 1,000 | 100 | | |
| | Reed and Nár (maunds) | ... | ... | ... | 283 | 57 | ... | ... | ... | ... | 283 | 57 | | |
| | Stone (cubic feet) | ... | ... | ... | 16,708 | 42 | 6,85,494 | 1,713 | ... | ... | 7,02,202 | 1,755 | | |
| | Other minor produce | ... | ... | ... | ... | 54 | ... | ... | ... | ... | ... | 54 | | |
| CHENAB ... | Grazing by lease (acres) | ... | ... | ... | 66,327 | 13,045 | ... | ... | ... | ... | 66,327 | 13,045 | | |
| | „ by permits (cattle) | ... | ... | ... | 12,375 | 4,777 | ... | ... | ... | ... | 12,375 | 4,777 | | |
| | Grass cutting (acres) | ... | ... | ... | 10,010 | 1,307 | ... | ... | ... | ... | 10,010 | 1,307 | | |
| | „ by permits (head loads) | ... | ... | ... | 6,203 | 314 | ... | ... | ... | ... | 6,203 | 314 | | |
| | Kahi and Dab grass ( „ ) | ... | ... | ... | 1,332 | 93 | ... | ... | ... | ... | 1,332 | 93 | | |
| | Stones (cubic feet) | ... | ... | ... | 5,800 | 58 | ... | ... | ... | ... | 5,800 | 58 | | |
| | Mallah leaves (head loads) | ... | ... | ... | 3,368 | 421 | ... | ... | ... | ... | 3,368 | 421 | | |
| LAHORE ... | Grass by permits (maunds) | ... | ... | ... | 1,937 | 81 | ... | ... | ... | .. | 1,937 | 81 | | |
| | Grass cut and stacked (maunds) | ... | 7,001 | 2,580 | ... | ... | ... | ... | ... | ... | 7,001 | 2,580 | | |
| | Grass by lease (acres) | ... | ... | ... | 2,548 | 390 | ... | ... | ... | ... | 2,548 | 390 | | |
| | Grazing by permits (acres) | ... | ... | ... | 12,384 | 5,540 | ... | ... | .. | ... | 12,384 | 5,540 | | |
| | „ by lease (acres) | ... | ... | ... | 2,356 | 1,515 | ... | ... | ... | ... | 2,356 | 1,515 | | |
| | Munj Kana and Sar (maunds) | ... | ... | ... | 794 | 71 | ... | ... | .. | ... | 794 | 71 | | |
| | „ by lease (acres) | ... | ... | ... | 5,001 | 1,899 | ... | ... | ... | ... | 5,001 | 1,899 | | |
| | Other minor produce | ... | ... | ... | ... | 2 | ... | ... | ... | ... | ... | 2 | | |
| MULTAN ... | Grass (maunds) | ... | 2,659 | 459 | 789 | 99 | ... | ... | ... | ... | 3,448 | 558 | | |
| | „ (loads) | ... | ... | ... | 1,383 | 109 | ... | ... | ... | ... | 1,383 | 109 | | |
| | Grazing by permits (No. of cattle) | ... | ... | .. | 12,344 | 2,076 | ... | ... | ... | ... | 12,344 | 2,076 | | |
| | „ by lease (acres) | ... | ... | ... | 25,874 | 1,860 | ... | ... | ... | ... | 25,874 | 1,860 | | |
| | Munj Kana | ... | ... | ... | ... | 88 | ... | ... | ... | ... | ... | 88 | | |
| | Other minor produce | ... | ... | ... | ... | 35 | ... | ... | ... | ... | ... | 35 | | |
| MONTGOMERY ... | Grazing (acres) | ... | ... | ... | 22,702 | 4,334 | ... | ... | ... | ... | 22,702 | 4,334 | | |
| | „ (No. of cattle) | ... | ... | ... | 1,571 | 247 | ... | ... | ... | ... | 1,571 | 247 | | |
| | Grass (acres) | ... | ... | ... | 22,029 | 1,235 | ... | ... | ... | ... | 22,029 | 1,235 | | |
| | „ (maunds) | ... | ... | ... | 25 | 3 | ... | ... | ... | ... | 25 | 3 | | |
| | „ (loads) | ... | ... | ... | 726 | 916 | ... | ... | ... | ... | 726 | 916 | | |
| | Munj Kana (loads) | ... | ... | ... | 25,622 | 171 | ... | ... | ... | ... | 25,622 | 171 | | |
| | „ (acres) | ... | ... | ... | 27,848 | 1,602 | ... | ... | .. | ... | 27,848 | 1,602 | | |
| | Other minor produce (acres) | ... | ... | ... | 13,466 | 133 | ... | ... | ... | ... | 13,466 | 133 | | |

**Form No. 55.**

## OUTTURN OF MINOR FOREST PRODUCE DURING THE YEAR 1889-90.—(*continued.*)

| Division. | Description of produce. | Produce removed or utilized. | | | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *By Government Agency.* | | *By Purchasers.* | | *By Free Grants.* | | *By Right-holders.* | | *Total.* | | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | |
| | | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | |
| Ambala ... | Bamboos (No.) ... | ... | ... | 2,980 | 23 | ... | ... | ... | ... | 2,980 | 23 | |
| | Grazing (No. of cattle) ... | ... | ... | 161 | 49 | ... | ... | ... | ... | 161 | 49 | |
| | Grass (loads) ... | ... | ... | 744 | 131 | ... | ... | ... | ... | 744* | 131 | * Head loads, = 229 |
| | „ (bundles) ... | ... | ... | 1,000 | 4 | ... | ... | ... | ... | 1,000 | 4 | Cart loads, = 62 |
| | „ (acres) ... | ... | ... | 271 | 520 | ... | ... | ... | ... | 271 | 520 | Camel loads, = 28 |
| | | | | | | | | | | | | Bullock loads, = 425 |
| | Total from Reserved Forests ... | 6,48,833 | 15,232 | 7,74,727 | 67,942 | 6,87,104 | 1,940 | 2,16,232 | 42,329 | 23,26,896 | 1,27,443 | |
| | **PROTECTED FORESTS.** | | | | | | | | | | | |
| Rawalpindi ... | Grazing by permits (No. of cattle) ... | ... | ... | 4,362 | 73 | ... | ... | ... | ... | 4,362 | 73 | |
| | Grazing (No. of cattle) ... | ... | ... | ... | ... | ... | ... | 45,272 | 87,014 | 45,272 | 87,014 | |
| | Grass cutting by permits (loads) ... | ... | ... | 12 | 2 | ... | ... | ... | ... | 12 | 2 | |
| | Babar grass ( „ ) ... | ... | ... | 485 | 36 | ... | ... | ... | ... | 485 | 36 | |
| Chenab ... | Grazing by lease (acres) ... | ... | ... | 1,86,068 | 35,126 | ... | ... | ... | ... | 1,86,068 | 35,126 | |
| | „ by permits (cattle) ... | ... | ... | 4,733 | 977 | ... | ... | ... | ... | 4,733 | 977 | |
| | Mallah leaves (head loads) ... | ... | ... | 1,720 | 215 | ... | ... | ... | ... | 1,720 | 215 | |
| | Total from Protected Forests ... | ... | ... | 1,97,380 | 36,429 | ... | ... | 45,272 | 87,014 | 2,42,652 | 1,23,443 | |

## UNCLASSED STATE FORESTS.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAWALPINDI ... | Grass cutting by lease (acres) | ... | ... | ... | ... | 580 | 608 | ... | ... | ... | ... | 580 | 608 | |
| | Sanatha and Chir branches (loads) | ... | ... | ... | ... | ... | ... | ... | ... | 693 | 43 | 693 | 43 | |
| KANGRA ... | Grazing (acres) | ... | ... | ... | ... | 1,91,463 | 2,984 | ... | ... | ... | ... | 1,91,463 | 2,984 | |
| | Grass cutting (acres) | ... | ... | ... | ... | 414 | 205 | ... | ... | ... | ... | 414 | 205 | |
| | Bamboos (No.) | ... | 32,190 | 765 | 4,425 | 23 | ... | ... | ... | ... | ... | 36,615 | 788 | |
| KULU ... | Grass (maunds) | ... | ... | ... | 550 | 25 | ... | ... | 26,50,000* | 26,500 | 26,50,550 | 26,525 | | * By Mahant of Bhai Pheru. |
| | Grazing (heads) cattle, sheep, &c., | ... | ... | ... | 5,675 | 96 | ... | ... | 2,96,000 | 4,625 | 3,01,675 | 4,721 | | |
| | Vegetable mould (maunds) | ... | ... | ... | ... | ... | ... | ... | 12,07,575 | 24,000 | 12,07,575 | 24,000 | | |
| | Patis (*aconite*) (maunds) | ... | ... | ... | ... | ... | ... | ... | 32 | 832 | 32 | 832 | | |
| | Karu (*gentian*) (maunds) | ... | ... | ... | ... | ... | ... | ... | 300 | 1,500 | 300 | 1,500 | | |
| | Egilbir (maunds) | ... | ... | ... | ... | ... | ... | ... | 30 | 300 | 30 | 300 | | |
| | Dhup (*juniper communis*) (maunds) | ... | ... | ... | ... | ... | ... | ... | 40 | 80 | 40 | 80 | | |
| | Binafsha (*Viola serpens*) (maunds) | ... | ... | ... | ... | ... | ... | ... | 35 | 1,260 | 35 | 1,260 | | |
| | Khut (*Aucklandia*) (maunds) | ... | ... | ... | ... | ... | ... | ... | 20 | 240 | 20 | 240 | | |
| | Nihani (*Valariana*) (maunds) | ... | ... | ... | ... | ... | ... | ... | 10 | 50 | 10 | 50 | | |
| | Tatakbar (horse chestnut) (maunds) | ... | ... | ... | ... | ... | ... | ... | 10 | 25 | 10 | 25 | | |
| | Bojpattra (birch bark) (maunds) | ... | ... | ... | ... | ... | ... | ... | 15 | 37 | 15 | 37 | | |
| | Dandasa (walnut bark) (maunds) | ... | ... | ... | ... | ... | ... | ... | 60 | 600 | 60 | 600 | | |
| | Carraway seed (zira) (maunds) | ... | ... | ... | ... | ... | ... | ... | 30 | 600 | 30 | 600 | | |
| | „ (singhu) (maunds) | ... | ... | ... | ... | ... | ... | ... | 25 | 250 | 25 | 250 | | |
| | Walunts (fruits) (maunds) | ... | ... | ... | ... | ... | ... | ... | 40 | 200 | 40 | 200 | | |
| | Sheroli nuts (maunds) | ... | ... | ... | ... | ... | ... | ... | 5 | 12 | 5 | 12 | | |
| | Pomegranate seed (maunds) | ... | ... | ... | ... | ... | ... | ... | 10 | 20 | 10 | 20 | | |
| BASHAHR ... | Grass and other fodder (maunds) | ... | ... | ... | ... | ... | ... | ... | 34,31,000 | 17,870 | 34,31,000 | 17,870 | | |
| | Branches, &c., for manure (maunds) | ... | ... | ... | ... | ... | ... | ... | 6,00,000 | 6,250 | 609,000 | 6,250 | | |
| | Turpentine (maunds) | ... | 3 | 10 | ... | ... | ... | ... | ... | ... | 3 | 10 | | |
| | Other minor produce (maunds) | ... | ... | ... | ... | ... | ... | ... | 500 | 2,500 | 500 | 2,500 | | |
| JHELUM ... | Grazing by leases (acres) | ... | ... | ... | 1,34,824 | 4,027 | ... | ... | ... | ... | 1,34,824 | 4,027 | | |
| | „ by settlement (cattle) | ... | ... | ... | ... | ... | 122 | 15 | 30,266 | 1,994 | 30,388 | 2,009 | | |
| | Grass cutting (men) | ... | ... | ... | ... | ... | 3 | 1 | ... | ... | 3 | 1 | | |
| | Stone (cubic feet) | ... | ... | ... | 1,250 | 3 | ... | ... | ... | ... | 1,250 | 3 | | |
| CHENAB ... | Grazing by lease (acres) | ... | ... | ... | 1,25,330 | 29,150 | ... | ... | ... | ... | 1,25,330 | 29,150 | | |
| | „ by permits (cattle) | ... | ... | ... | 11,568 | 3,935 | ... | ... | ... | ... | 11,568 | 3,935 | | |
| | Grass cutting (acres) | ... | ... | ... | 7,156 | 614 | ... | ... | ... | ... | 7,156 | 614 | | |
| | „ by permits (head loads) | ... | ... | ... | 3,875 | 137 | ... | ... | ... | ... | 3,875 | 137 | | |
| LAHORE ... | Grazing (acres) | ... | ... | ... | ... | ... | 1,042 | 218* | ... | ... | 1,042 | 218 | | * By Mahant of Bhai Pheru. |
| | Grass cut (maunds) | ... | 1,698 | 598 | 991 | 162 | ... | ... | ... | ... | 2,689 | 760 | | |
| | „ by lease (acres) | ... | ... | ... | 4,865 | 190 | ... | ... | ... | ... | 4,865 | 190 | | |
| | Grazing by permits (acres) | ... | ... | ... | 42,064 | 6,788 | ... | ... | ... | ... | 42,064 | 6,788 | | |
| | „ by lease (acres) | ... | ... | ... | 1,36,768 | 18,122 | ... | ... | ... | ... | 1,36,768 | 18,122 | | |
| | Moonj Kana, &c., by lease (acres) | ... | ... | ... | 26,443 | 2,001 | ... | ... | ... | ... | 26,443 | 2,001 | | |
| | Malla Patra by lease (acres) | ... | ... | ... | 13,097 | 50 | ... | ... | ... | ... | 13,097 | 50 | | |
| | Saltpetre by lease (acres) | ... | ... | ... | 13,097 | 24 | ... | ... | ... | ... | 13,097 | 24 | | |

**Form No. 55.**

## OUTTURN OF MINOR FOREST PRODUCE DURING THE YEAR 1889-90—(*continued*).

| Division. | Description of produce. | Produce removed or utilized. | | | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *By Government Agency.* | | *By Purchasers.* | | *By Free grants.* | | *By Right-holders.* | | *Total.* | | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | |
| | | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | |
| Multan ... | Grass (maunds) ... | 1,168 | 154 | 64 | 8 | ... | ... | ... | ... | 1,232 | 162 | |
| | ,, (loads) ... | ... | ... | 124 | 7 | ... | ... | ... | ... | 124 | 7 | |
| | Grazing by permits (No. of cattle) ... | ... | ... | 8,845 | 2,329 | ... | ... | ... | ... | 8,845 | 2,329 | |
| | ,, by lease (acres) ... | ... | ... | 72,397 | 4,609 | ... | ... | ... | ... | 72,397 | 4,609 | |
| | Moonj Kana ... | ... | ... | ... | 514 | ... | ... | ... | ... | ... | 514 | |
| | Other minor produce ... | ... | ... | ... | 31 | ... | ... | ... | ... | ... | 31 | |
| Montgomery ... | Grazing (acres) ... | ... | ... | 4,85,802 | 23,780 | ... | ... | ... | ... | 4,85,802 | 23,780 | |
| | Kankar (maunds) ... | ... | ... | 8,959 | 45 | ... | ... | ... | ... | 8,959 | 45 | |
| | Moonj Kana (acres) ... | ... | ... | 636 | 434 | ... | ... | ... | ... | 636 | 434 | |
| | Main (acres) ... | ... | ... | 4,85,802 | 1,241 | ... | ... | ... | ... | 4,85,802 | 1,241 | |
| | Other minor produce ... | ... | ... | ... | 36 | ... | ... | ... | ... | ... | 36 | |
| Ambala ... | Grazing (No. of cattle) ... ... | ... | ... | 62 | 60 | ... | ... | ... | ... | 62 | 60 | |
| | ,, by permits (No. of permits) ... | ... | ... | 7 | 9 | ... | ... | ... | ... | 7 | 9 | |
| | Grass (head loads) ... ... | ... | ... | 10 | 1 | ... | ... | ... | ... | 10 | 1 | |
| | ,, cutting by permits (No. of permits) ... | ... | ... | 35 | 62 | ... | ... | ... | ... | 35 | 62 | |
| | ,, (acres) ... ... ... | ... | ... | 710 | 1,690 | ... | ... | ... | ... | 710 | 1,690 | |
| | ,, cutting ... ... ... | ... | ... | .. | 25 | ... | ... | ... | ... | ... | 25 | |
| | Total from unclassed State Forests ... | 35,059 | 1,572 | 17,87,888 | 1,04,025 | 1,167 | 234 | 82,16,696 | 89,788 | 1,00,40,810 | 1,95,574 | |
| | **ABSTRACT FOR RESERVED FORESTS.** | | | | | | | | | | | |
| | Grazing ... ... ... ... | ... | ... | ... | 44,224 | ... | 68 | ... | 36,876 | ... | 81,168 | |
| | Grass ... ... ... ... | ... | 3,257 | ... | 18,283 | ... | 159 | ... | 5,403 | ... | 27,102 | |
| | Bamboos ... ... ... ... | ... | 11,911 | ... | 78 | ... | ... | ... | ... | ... | 11,989 | |
| | Other minor produce ... ... ... | ... | 64 | ... | 5,357 | ... | 1,713 | ... | 50 | ... | 7,184 | |
| | Total ... | ... | 15,232 | ... | 67,942 | ... | 1,940 | ... | 42,329 | ... | 1,27,443 | |

## ABSTRACT FOR PROTECTED FORESTS.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Grazing | ... | ... | ... | ... | ... | ... | 36,178 | ... | ... | ... | 87,014 | ... | 1,23,192 |
| Grass | ... | ... | ... | ... | ... | ... | 36 | ... | ... | ... | ... | ... | 36 |
| Other minor produce | ... | ... | ... | ... | ... | ... | 215 | ... | ... | ... | ... | ... | 215 |
| | | Total | ... | ... | .. | ... | 36,429 | ... | ... | ... | 87,014 | ... | 1,23,443 |

## ARSTRACT FOR UNCLASSED STATE FORESTS.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Grazing | ... | ... | ... | ... | ... | ... | ... | 95,889 | ... | 233 | ... | 6,619 | ... | 1,02,741 |
| Grass | .. | ... | ... | ... | ... | 752 | ... | 3,734 | ... | 1 | ... | 44,370 | ... | 48,857 |
| Bamboos | ... | ... | ... | ... | ... | 765 | ... | 23 | ... | ... | ... | ... | ... | 788 |
| Other minor produce | .... | ... | ... | ... | ... | 10 | ... | 4,379 | ... | ... | ... | 38,799 | ... | 43,188 |
| | | Total | ... | ... | 1,527 | ... | 1,04,025 | ... | 234 | ... | 89,788 | ... | 1,95,574 |
| | | Grand Total | ... | ... | 16,759 | ... | 2,08,396 | ... | 2,174 | ... | 2,19,131 | ... | 4,46,460 |

*Add*—

| | | | | Rs. | Rs. |
|---|---|---|---|---|---|
| Hazara Division.— | Outstanding of former years | | ... | 89 | |
| Kulu | Do. | Value of turpentine of former year | ... | 11 | |
| Jhelum | Do. | do. of hay of ditto | ... | 111 | |
| | | Outstanding of ditto | ... | 37 | |
| Chenab | Do. | ditto ditto | ... | 6,313 | |
| Lahore | Do. | ditto ditto | ... | 1,170 | |
| Multan | Do | ditto ditto | ... | 90 | |
| Montgomery | | ditto ditto | ... | 2,534 | |
| Ambala | Do. | Bamboos bought and resold | ... | 388 | |
| | | | | | 10,743 |

*Deduct*—

| | | | | Rs. | Rs. | Rs. |
|---|---|---|---|---|---|---|
| | | | | | | 4,46,460 |
| Hazara Division.— | Outstanding of 1889-90 | | ... | 100 | | |
| | Value of produce unsold; turpentine Rs. 4 kalbir Rs. 36, grass lis. 38 | | ... | 78 | | |
| Bashahr | Do. | Value of turpentine unsold | ... | 10 | | |
| Jhelum | Do. | Outstanding of 1889-90 | ... | 38 | | |
| Chenab | Do. | Do. Do. | ... | 1,138 | | |
| Lahore | Do. | Do. Do. | ... | 3,250 | | |
| | | Value of grass unsold | ... | 877 | | |
| Multan | Do. | outstanding of 1889-90 | ... | 200 | | |
| Total under "Free Grants" and "Right-holders" | | | ... | 2,21,305 | | |
| | | | | | 2,26,996 | |
| | | Net deduction | ... | | | 2,16,253 |
| | | Total Receipts under Ic, Ie, IIc, IId, IIe | | | | 2,30,207 |

**Form No. 56.**

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1889-90.

| Particulars. | No. or quantity | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR.** | | | | |
| *Hazara Division.* | | | | |
| Deodar logs ... | 58 | 2,120 | | |
| Pine and other logs | 2,246 | 44,300 | | |
| B. G. sleepers ... | 472 | 1,040 | | |
| Deodar scantlings | 31 | 51 | | |
| Pine and other scantlings ... | 5,365 | 7,380 | | |
| Miscellaneous pieces | 18 | 18 | | |
| | | | 8,384 | 56,127 |
| *Rawalpindi Division* | | | | |
| Scantlings ... | 57 | 50 | | |
| | | | 57 | 50 |
| *Chamba Division.* | | | | |
| Deodar logs ... | 4,096 | 1,64,187 | | |
| Pine logs ... | 20 | 304 | | |
| B. G. sleepers ... | 11,709 | 42,054 | | |
| Deodar scantlings | 5,585 | 5,115* | | |
| Pine scantlings ... | 230 | 234* | | |
| Miscellaneous pieces | 108 | 162 | | |
| | | | 21,754 | 2,12,056 |
| *Kangra Division.* | | | | |
| Deodar logs ... | 588 | 22,692 | | |
| Box-wood logs ... | 27 | 17 | | |
| Pine and other logs | 209 | 4,441 | | |
| B. G. sleepers ... | 9 | 31 | | |
| Pencil cedar ... | 8 | 142 | | |
| Other scantlings ... | 29 | 40 | | |
| | | | 870 | 27,363 |
| *Bashahr Division.* | | | | |
| Deodar logs ... | 2,691 | 30,743 | | |
| Box-wood logs ... | 11,034 | 6,042 | | |
| Pine logs ... | 106 | 1,590 | | |
| B. G. sleepers ... | 8,411 | 29,196 | | |
| | | | 22,242 | 77,471 |
| *Jhelum Division.* | | | | |
| Deodar logs ... | 165 | 4,115 | | |
| Deodar beam ... | 1 | 7 | | |
| Pine and other logs | 4 | 57 | | |
| B. G. sleepers ... | 1,487 | 5,204 | | |
| Miscellaneous pieces | 4 | 12 | | |
| | | | 1,661 | 9,395 |
| *Chenab Division* | | | | |
| Deodar logs ... | 3,735 | 1,07,209 | | |
| Pine logs ... | 2 | 158 | | |
| B. G. sleepers .. | 26 | 78 | | |
| N. G. ,, ... | 61 | 95 | | |
| Pine ,, ... | 1 | 2 | | |
| Miscellaneous pieces | 91 | 172 | | |
| | | | 3,916 | 1,07,804 |
| *Ambala Division.* | | | | |
| Deodar logs ... | 1,472 | 54,055 | | |
| Box-wood logs ... | 24 | 19 | | |
| Pine and other logs | 1 | 34 | | |
| N. G. sleepers ... | 38 | 57 | | |
| Confiscated logs ... | 5 | 40 | | |
| ,, scantlings | 46 | 123 | | |
| Miscellaneous pieces | 4,432 | 5,227 | | |
| | | | 6,018 | 59,555 |
| **TOTAL BALANCE ...** | | | 64,902 | 5,49,821 |
| *Carried over ...* | ... | ... | 64,902 | 5,49,821 |

| Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|
| **TIMBER.** | | | | |
| **DISPOSALS.** | | | | |
| (1) TRUE DISPOSALS | | | | |
| Removed by purchasers from Depôts. | | | | |
| Deodar logs ... | 15,211 | 4,05,963 | | |
| Pine and other logs | 9,850 | 1,15,653 | | |
| Box-wood logs ... | 1,989 | 1,251 | | |
| B. G. sleepers ... | 28,249 | 94,970 | | |
| N. G. ,, ... | 717 | 1,310 | | |
| Deodar scantlings | 93 | 198 | | |
| ,, sleepers and scantlings ... | 33,798 | 1,13,220 | | |
| Pine and other scantlings ... | 17,415 | 20,859 | | |
| Deodar trees ... | 40 | 4,178 | | |
| Pine sleepers ... | 11 | 39 | | |
| ,, Poles ... | 680 | 660 | | |
| Pencil cedar ... | 9 | 162 | | |
| Miscellaneous pieces | 10,965 | 21,081 | | |
| | | | 1,10,027 | 7,70,544 |
| Sold locally. | | | | |
| Deodar logs ... | 16 | 405 | | |
| Pine and other logs | 3 | 121 | | |
| B. G. sleepers ... | 2 | 0 | | |
| Miscellaneous pieces | 50 | 3,126 | | |
| | | | 71 | 3,658 |
| Received in Forest cases and sold | | | | |
| Pine and other scantlings ... | 44 | 150 | 44 | 150 |
| Used by Department. | | | | |
| Deodar logs ... | 5 | 118 | | |
| Pine and other logs | 4 | 63 | | |
| B. G. sleepers ... | 5 | 17 | | |
| Deodar scantlings | 742 | 478 | | |
| Pine and other scantlings ... | 320 | 354 | | |
| Miscellaneous pieces | 469 | 589 | | |
| | | | 1,545 | 1,619 |
| Made over to Contractors. | | | | |
| Pine logs ... | 3 | 58 | | |
| Miscellaneous pieces | 175 | 3,408 | | |
| | | | 178 | 3,466 |
| Stolen from Depôt | | | | |
| B. G. sleepers ... | 1 | 2 | 1 | 2 |
| Lost by re-measurement and struck off for other causes, &c. | | | | |
| Deodar logs ... | ... | 7,144 | | |
| Pine and other logs | ... | 534 | | |
| Box-wood logs ... | ... | 2 | | |
| B. G. sleepers ... | 418 | 1,450 | | |
| N. G. ,, ... | ... | 6 | | |
| Deodar scantlings | ... | 9 | | |
| Pine and other scantlings ... | ... | 42 | | |
| | | | 418 | 9,187 |
| *Carried forward...* | ... | ... | 1,21,284 | 7,97,626 |

* Last year's figures corrected.

**Form No. 56.**

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1889-90—(continued).

| Particulars. | No. or quantity | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet |
|---|---|---|---|---|
| *Brought forward* ... | ... | ... | 64,902 | 5,49,821 |
| **RECEIPTS.** | | | | |
| (1). TRUE RECEIPTS. | | | | |
| Received from Forests during the year. | | | | |
| Deodar logs ... | 14,135 | 4,17,285 | | |
| Pine and other logs, | 5,891 | 62,522 | | |
| B. G. sleepers ... | 48,744 | 1,73,200 | | |
| N. G. „ ... | 2,811 | 4,651 | | |
| Deodar scantlings, | 2,632 | 4,271 | | |
| Pine and other scantlings ... | 17,164 | 20,565 | | |
| Deodar trees .. | 60 | 6,288 | | |
| Pine poles ... | 532 | 483 | | |
| Miscellaneous pieces | 3,204 | 6,345 | | |
| | | | 95,233 | 6,95,560 |
| Received by Transfer from other Classes. | | | | |
| Deodar scantlings, | 116 | 251 | | |
| | | | 116 | 251 |
| Received and sold locally. | | | | |
| Deodar logs ... | 16 | 405 | | |
| Pine and other logs, | 3 | 121 | | |
| B. G. sleepers ... | 2 | 6 | | |
| Miscellaneous pieces | 50 | 3,126 | | |
| | | | 71 | 3,658 |
| Received in Forest Cases. | | | | |
| Deodar logs ... | 1 | 16 | | |
| Pine and other scantlings ... | 44 | 150 | | |
| Miscellaneous pieces | 51 | 47 | | |
| | | | 96 | 213 |
| Gained by re-measurement. | | | | |
| Deodar logs ... | ... | 22,550 | | |
| Pine and other logs, | ... | 2,005 | | |
| Pine and other scantlings ... | ... | 35 | | |
| | | | ... | 24,590 |
| Drift timber transferred to Government Account | | | | |
| Deodar logs ... | 826 | 4,880 | | |
| B. G. sleepers ... | 181 | 571 | | |
| Pine and other logs, | 313 | 3,542 | | |
| Pine and other scantlings ... | 889 | 2,443 | | |
| Pine sleepers ... | 8 | 29 | | |
| Miscellaneous pieces | 1,422 | 3,772 | | |
| | | | 3,089 | 15,237 |
| Unmarked timber received during the year. | | | | |
| Deodar logs ... | 924 | 20,952 | | |
| B. G. sleepers ... | 51 | 177 | | |
| Pine and other logs, | 2,482 | 43,396 | | |
| Miscellaneous pieces | 1,426 | 832 | | |
| | | | 4,883 | 65,357 |
| *Carried forward* ... | ... | ... | 1,03,488 | 8,04,866 |

| Particulars. | No or quantity | Cubic feet. | Total of each head. No or quantity | Total of each head. Cubic feet. |
|---|---|---|---|---|
| *Brought forward* .. | ... | ... | 1,21,284 | 7,07,626 |
| Despatched from Forests and from Depôts but not yet received | | | | |
| Deodar logs ... | 2,822 | 1,53,224 | | |
| Pine and other logs, | 165 | 7,425 | | |
| N. G sleepers ... | 3 | 4 | | |
| | | | 2,990 | 1,60,653 |
| TOTAL TRUE DISPOSALS | | ... | 1,24,274 | 9,58,279 |
| (2) CROSS DISPOSALS. | | | | |
| Transferred to other Classes | | | | |
| Deodar logs ... | 10 | 110 | | |
| Miscellaneous pieces | * 2,953 | 3,310 | | |
| | | | 2,963 | 3,420 |
| Transferred by cancellation of sale. | | | | |
| Deodar logs ... | 5 | 136 | | |
| | | | 5 | 136 |
| Transferred to Drift Account. | | | | |
| Deodar sleepers ... | 1 | 17 | | |
| | | | 1 | 17 |
| Transferred to other Depôts. | | | | |
| Deodar logs ... | 12,893 | 3,56,051 | | |
| B G. sleepers ... | 31,762 | 1,10,539 | | |
| N G. „ ... | 2,840 | 5,310 | | |
| Deodar sleepers and scantlings ... | 24,883 | 84,503 | | |
| Pine and other logs | 782 | 19,157 | | |
| Pine and other scantlings .. | 15,786 | 18,474 | | |
| Deodar scantlings, | 176 | 369 | | |
| Pine poles ... | 532 | 483 | | |
| Pencil cedar .. | 3 | 46 | | |
| Miscellaneous pieces | 1,415 | 5,240 | | |
| | | | 91,072 | 6,00,181 |
| TOTAL CROSS DISPOSALS ... | | | 94,041 | 6,03,763 |
| **TOTAL DISPOSALS** ... | | | 2,18,315 | 15,62,042 |
| **BALANCE AT CLOSE OF THE YEAR** | | | | |
| *Hasara Division.* | | | | |
| Deodar logs ... | 295 | 11,562 | | |
| Deodar sleepers ... | 18 | 60 | | |
| Pine and other logs | 2,251 | 45,487 | | |
| Deodar scantlings | 118 | 229 | | |
| Pine and other scantlings ... | 5,160 | 7,167 | | |
| Miscellaneous pieces | 12 | 12 | | |
| | | | 7,854 | 64,517 |
| *Carried forward*... | ... | ... | 7,854 | 64,517 |

2,953=3,310 transferred to firewood.

**Form No. 56**

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1889-90.—(continued).

| Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|
| *Brought forward* ... | ... | ... | 1,03,488 | 8,04,866 |
| **Drift brought direct to Government Account.** | | | | |
| Deodar logs ... | 42 | 415 | | |
| B. G. sleepers ... | 24 | 54 | | |
| Pine ,, ... | 1 | 3 | | |
| Pine and other logs, | 10 | 109 | | |
| Miscellaneous pieces | 95 | 293 | | |
| | | | 172 | 874 |
| **Received from previous launchings.** | | | | |
| Deodar logs ... | 6,178 | 1,78,601 | | |
| B. G. sleepers ... | 23,113 | 80,075 | | |
| N. G. ,, ... | 630 | 1,182 | | |
| Pine and other logs | 2,380 | 41,003 | | |
| Deodar scantlings... | 4 | 7 | | |
| Deodar sleepers and scantlings ... | 20,270 | 66,150 | | |
| Pine and other scantlings ... | 50 | 80 | | |
| Pine sleepers ... | 1 | 5 | | |
| Pine poles ... | 150 | 188 | | |
| Pencil cedar ... | 1 | 20 | | |
| Miscellaneous pieces | 7,248 | 20,263 | | |
| | | | 60,061 | 3,87,580 |
| TOTAL TRUE RECEIPTS ... | ... | ... | 1,63,721 | 11,93,320 |
| **(2) CROSS RECEIPTS.** | | | | |
| **Received by transfer from other Classes.** | | | | |
| Deodar logs ... | 9 | 113 | | |
| Pine and other logs | *3,613 | 18,560 | | |
| Miscellaneous pieces ... | *76 | 57 | | |
| | | | 3,698 | 18,736 |
| **Received by cancellation of sale.** | | | | |
| Deodar logs ... | 5 | 136 | 5 | 136 |
| **Timber wrongly transferred to Government Account.** | | | | |
| Pine logs ... | 1 | 17 | | |
| | | | 1 | 17 |
| *Carried forward* ... | ... | ... | 3,704 | 18,889 |

| Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|
| *Brought forward* ... | ... | ... | 7,854 | 64,517 |
| *Chamba Division.* | | | | |
| Deodar logs ... | 2,459 | 92,544 | | |
| Pine and other logs | 31 | 655 | | |
| Deodar sleepers and scantlings ... | 31,975 | 1,01,198 | | |
| Pine scantlings ... | 329 | 442 | | |
| Pine poles ... | 11 | 11 | | |
| | | | 34,805 | 1,94,850 |
| *Kangra Division.* | | | | |
| Deodar logs ... | 801 | 20,367 | | |
| Pine and other logs | 211 | 3,767 | | |
| Box-wood logs ... | 27 | 17 | | |
| B. G. sleepers ... | 3,184 | 13,989 | | |
| N. G. ,, ... | 1,240 | 2,306 | | |
| Miscellaneous scantlings ... | 79 | 120 | | |
| Scraps ... | 280 | 300 | | |
| | | | 5 822 | 40,866 |
| *Kulu Division.* | | | | |
| B. G. sleepers ... | 3,124 | 10,840 | | |
| N. G. ,, ... | 455 | 851 | | |
| Deodar trees ... | 20 | 2,060 | | |
| Deodar scantlings, | 650 | 391 | | |
| Scraps ... | 215 | 83 | | |
| | | | 4,464 | 14,225 |
| *Bashahr Division.* | | | | |
| Deodar logs ... | 4,154 | 98,982 | | |
| Pine and other logs | 75 | 2,662 | | |
| B. G. sleepers ... | 5,366 | 18,621 | | |
| N. G. ,, ... | 819 | 1,089 | | |
| Box-wood logs .. | 9,045 | 5,691 | | |
| | | | 19,457 | 1,27,045 |
| *Jhelum Division.* | | | | |
| Deodar logs ... | 2,058 | 72,528 | | |
| B. G. sleepers ... | 2,869 | 9,041 | | |
| Miscellaneous pieces | 2 | 5 | | |
| | | | 4,929 | 82,474 |
| *Chenab Division.* | | | | |
| Deodar logs ... | 123 | 1,648 | | |
| Pine and other logs | 6 | 191 | | |
| B. G. sleepers ... | 462 | 1,574 | | |
| Miscellaneous pieces | 190 | 678 | | |
| | | | 781 | 4,091 |
| *Lahore Division.* | | | | |
| Logs ... ... | 3,876 | 35,776 | | |
| | | | 3,876 | 35,776 |
| *Ambala Division.* | | | | |
| Deodar logs ... | 6,477 | 1,74,824 | | |
| Pine and other logs | 820 | 10,396 | | |
| B. G. sleepers ... | 11,802 | 40,053 | | |
| N. G. ,, ... | 315 | 419 | | |
| Box-wood logs ... | 24 | 17 | | |
| Confiscated scantlings ... | 683 | 1,975 | | |
| Miscellaneous pieces | 2,975 | 7,741 | | |
| | | | 23,096 | 2,36,325 |
| **TOTAL BALANCE** ... | | | 1,05,084 | 8,00,169 |
| *Carried forward*... | ... | ... | 3,23,309 | 23,62,211 |

* 3612 = 18,560 } transferred from firewood.
76 = 57 }

**Form No. 56.**

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1889-90.—(continued).

| Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No or quantity. | Total of each Head. Cubic feet. | Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|---|---|---|---|---|
| | *Brought forward* | | 3,704 | 18,889 | | *Brought forward* | | 3,23,399 | 23,62,211 |
| **Received by transfer from other Depôts.** | | | | | | | | | |
| Deodar logs ... | 12,893 | 3,56,051 | | | | | | | |
| B. G. sleepers ... | 31,762 | 1,10,539 | | | | | | | |
| N. G. ,, ... | 2,840 | 5,319 | | | | | | | |
| Deodar scantlings... | 176 | 360 | | | | | | | |
| Pine and other scantlings ... | 15,786 | 18,474 | | | | | | | |
| Pine and other logs | 782 | 19,157 | | | | | | | |
| Deodar sleepers and scantlings ... | 24,883 | 84,503 | | | | | | | |
| Pine poles ... | 532 | 483 | | | | | | | |
| Pencil cedar ... | 3 | 46 | | | | | | | |
| Miscellaneous pieces | 1,415 | 5,240 | | | | | | | |
| | | | 91,072 | 6,00,181 | | | | | |
| TOTAL CROSS RECEIPTS. | ... | ... | 94,776 | 6,19,070 | | | | | |
| **TOTAL RECEIPTS.** | | ... | 2,58,497 | 18,12,390 | | | | | |
| **GRAND TOTAL** | ... | ... | 3,23,399 | 23,62,211 | **GRAND TOTAL** | ... | ... | 3,23,399 | 23,62,211 |
| Total for 1888-89... | ... | ... | 3,21,866 | 21,17,537 | Total for 1888-89... | ... | ... | 3,21,866 | 21,17,537 |

## ABSTRACT.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR.** | ... | ... | 64,902 | 5,49,821 | | | | | |
| **TOTAL BALANCE** | | ... | 64,902 | 5,49,821 | | | | | |
| **RECEIPTS.** | | | | | **DISPOSALS.** | | | | |
| (1).—TRUE RECEIPTS. | | | | | (1)—TRUE DISPOSALS. | | | | |
| Received from forests during the year ... ... | ... | ... | 95,233 | 6,95,560 | Removed by purchasers from depôts | ... | ... | 1,19,027 | 7,79,544 |
| Received by transfer from other classes | ... | | 116 | 251 | Sold locally ... | ... | ... | 71 | 3,658 |
| Received and sold locally ... | ... | ... | 71 | 3,658 | Received in forest cases and sold ... | ... | ... | 44 | 150 |
| Received in forest cases ... | ... | ... | 96 | 213 | Used by Department ... | ... | ... | 1,545 | 1,619 |
| Gained by re-measurement ... | ... | ... | ... | 24,590 | Made over to contractors ... | ... | ... | 178 | 3,466 |
| Drift Timber transferred to Government Account ... | ... | ... | 3,089 | 15,237 | Stolen from depôts ... | ... | ... | 1 | 2 |
| Unmarked timber received during the year ... | ... | ... | 4,883 | 65,357 | Lost by re-measurement and struck off for other causes, &c. ... | ... | ... | 418 | 9,187 |
| Drift brought direct to Government Account ... | ... | ... | 172 | 874 | Despatched from forests and from depôts, but not yet received ... | ... | ... | 2,990 | 1,61,653 |
| Received from previous launchings | ... | ... | 60,061 | 3,88,580 | | | | | |
| TOTAL TRUE RECEIPTS. | ... | ... | 1,63,721 | 11,94,320 | TOTAL TRUE DISPOSALS. | ... | ... | 1,24,274 | 9,59,279 |

**Form No. 56.**

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1889-90.

| Particulars. | No or quantity. | Cubic feet. | Total of each Head. | | Particulars. | No. or quantity. | Cubic feet. | Total of each Head. | |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. or quantity. | Cubic feet. | | | | No. or quantity. | Cubic feet. |
| (2) CROSS RECEIPTS | | | | | (2) CROSS DISPOSALS. | | | | |
| Received by transfer from other classes ... | ... | ... | 3,698 | 18,736 | Transferred to other classes ... | ... | ... | 2,963 | 3,429 |
| Received by cancellation of sale ... | ... | ... | 5 | 136 | Transferred by cancellation of sale... | ... | ... | 5 | 136 |
| Timber wrongly transferred to Government account | ... | ... | 1 | 17 | Transferred to drift account ... | ... | ... | 1 | 17 |
| Received by transfer from other Depôts | ... | ... | 91,072 | 5,99,181 | Transferred to other depôts ... | ... | ... | 91,072 | 5,99,181 |
| | | | | | TOTAL CROSS DISPOSALS. | ... | ... | 94,041 | 6,02,763 |
| TOTAL CROSS RECEIPTS. | ... | ... | 94,776 | 6,18,070 | | | | | |
| **TOTAL RECEIPTS.** | | ... | 2,58,497 | 18,12,390 | **TOTAL DISPOSALS.** | | ... | 2,18,315 | 15,62,042 |
| | | | | | BALANCE AT CLOSE OF THE YEAR. | ... | ... | 1,05,084 | 8,00,169 |
| **GRAND TOTAL** | ... | ... | 3,23,399 | 23,62,211 | **GRAND TOTAL** | ... | ... | 3,23,399 | 23,62,211 |
| Total for 1888-89... | ... | ... | 3,21,866 | 21,17,537 | Total for 1888-89 | ... | ... | 3,21,866 | 21,17,537 |

**Form No. 56.**

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1889-90.—(continued).

| Particulars | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. | Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|---|---|---|---|---|
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR.** | | **FIREWOOD AND CHARCOAL.** | | | | | | | |
| *Hazara Division.* | | | | | **DISPOSALS.** | | | | |
| Firewood ... ... | | 34,237 | | | (1). TRUE DISPOSALS. | | | | |
| Charcoal ... ... | | 4,144 | | | | | | | |
| | | | ... | 38,681 | | | | | |
| *Jhelum Division.* | | | | | Removed by Purchasers from Depôts. | | | | |
| Firewood ... ... | | 3,631 | | | | | | | |
| | | | ... | 3,631 | | | | | |
| *Lahore Division.* | | | | | Firewood ... | | 19,80,731 | | |
| Firewood ... ... | | 3,45,164 | | | Charcoal ... | ... | 8,768 | | |
| | | | ... | 3,45,164 | Sold locally. | | | ... | 19,95,519 |
| *Ambala Division* | | | | | | | | | |
| Firewood ... ... | | 26,566 | | | Firewood ... | | 25 | | |
| Charcoal .. ... | | 4 | | | | ... | | | |
| | | | ... | 26,570 | Used by Department. | | | ,, | 25 |
| **TOTAL BALANCE** | | ... | ... | 4,14,046 | Firewood ... | | | | |
| **RECEIPTS.** | | | | | Charcoal ... | ... | 1,050 | | |
| | | | | | | ... | 98 | | |
| (1). TRUE RECEIPTS. | | | | | | | | ... | 1,148 |
| | | | | | Lost by re-measurement, dryage, &c. | | | | |
| Received from Forests during the year. | | | | | Firewood ... | | | | |
| Firewood ... ... | | 37,94,223 | | | Charcoal ... | ... | 16,338 | | |
| Charcoal ... ... | | 4,721 | | | | ... | 80 | | |
| | | | | | Made over to contractors. | | | ... | 16,418 |
| Received in Sadr and other Depôts. | | | ... | 37,98,944 | Firewood ... | ... | 2,766 | | |
| Firewood ... .. | | 13,400 | ... | 13,400 | | | | ... | 2,766 |
| | | | | | | | | | |
| Received and sold locally. | | | | | TOTAL TRUE DISPOSALS. | ... | ... | | 20,15,876 |
| Firewood ... ... | | 25 | | | | | | | |
| | | | ... | 25 | (2) CROSS DISPOSALS. | | | | |
| Received through conversion | | | | | | | | | |
| Firewood ... ... | | 143 | | | Transferred to other Depôts. | | | | |
| | | | ... | 143 | | | | | |
| Received through re-bringing into stock dust struck off last year. | | | | | Firewood ... | ... | 20,271 | | |
| | | | | | Charcoal ... | ... | 4,326 | | |
| | | | | | | | | ... | 24,597 |
| Charcoal ... ... | | 830 | | | Transferred to other Classes. | | | | |
| | | | ... | 830 | | | | | |
| Recovered in Forest cases. | | | | | Firewood ... | ... | 23,457(b) | | |
| | | | | | | | | ... | 23,457 |
| Firewood ... ... | | 265 | | | TOTAL CROSS DISPOSALS. | ... | ... | ... | 48,054 |
| | | | ... | 265 | | | | | |
| Drift reverted to Government. | | | | | | | | | |
| Firewood ... ... | | 9 | | 9 | | | | | |
| | | | ... | | **TOTAL DISPOSALS** | ... | | ... | 20,63,930 |
| *Carried over* ... | | | ... | 38,13,616 | | | | | |

(a). Received by transfer from timber.

(b). 23,457 cubic feet fuel is made up and transferred to timber, thus :—
Lahore Division...23,393 c. ft.=18,560 c. ft.
Ambala ,, ... 57 ,, = 57 ,,
Hazara ,, ... 7 ,, = 16 bed legs

**Form No. 56.**

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1889-90.

| Particulars | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|
| *Brought forward ...* | ... | ... | ... | 38,13,013 |
| GAINED BY RE-MEASUREMENT. | | | | |
| Firewood | ... | 25,813 | ... | 25,813 |
| TOTAL TRUE RECEIPTS. | ... | ... | ... | 38,39,429 |
| (2). CROSS RECEIPTS. | | | | |
| RECEIVED BY TRANSFER FROM OTHER DEPÔTS. | | | | |
| Firewood ... | | 20,271 | | |
| Charcoal ... | | 4,326 | | |
| | | | | 24,597 |
| RECEIVED BY TRANSFER FROM OTHER CLASSES. | | | | |
| Firewood ... | ... | 3,310 (a) | ... | |
| | | | | 3,310 |
| TOTAL CROSS RECEIPTS. | ... | ... | ... | 27,907 |
| **TOTAL RECEIPTS** | | ... | ... | 38,67,336 |
| **GRAND TOTAL** | | ... | ... | 42,81,382 |
| TOTAL FOR 1888-89 ... | ... | ... | ... | 22,62,545 |

| Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet |
|---|---|---|---|---|
| **BALANCE AT CLOSE OF THE YEAR** | | | | |
| *Hazara Division.* | | | | |
| Firewood ... | ... | 15,999 | | |
| Charcoal ... | ... | 1,053 | | |
| | | | ... | 17,052 |
| *Jhelum Division.* | | | | |
| Firewood ... | ... | 3,488 | | |
| | | | ... | 3,488 |
| *Lahore Division.* | | | | |
| Firewood ... | ... | 6,49,580 | | |
| | | | ... | 6,49,580 |
| *Multan Division.* | | | | |
| Firewood ... | ... | 2,83,574 | | |
| | | | ... | 2,83,574 |
| *Montgomery Division* | | | | |
| Firewood ... | ... | 12,39,452 | | |
| | | | ... | 12,39,452 |
| *Ambala Division.* | | | | |
| Firewood ... | ... | 24,306 | | |
| | | | ... | 24,306 |
| **TOTAL BALANCE** | | ... | ... | 23,17,452 |
| **GRAND TOTAL** | | ... | ... | 42,81,382 |
| TOTAL FOR 1888-89 | ... | ... | ... | 22,62,545 |

## BAMBOOS.

| | | | | |
|---|---|---|---|---|
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR.** | | | | |
| *Ambala Division.* | | | | |
| Bamboos ... | 37 | ... | ... | ... |
| ,, pieces ... | 322 | ... | 359 | ... |
| **TOTAL BALANCE** | | ... | 359 | ... |
| **RECEIPTS.** | | | | |
| RECEIVED FROM FORESTS DURING THE YEAR. | | | | |
| Bamboos ... | 6,70,610 | ... | 6,70,610 | ... |
| RECEIVED BY PURCHASE. | | | | |
| Bamboos ... | 9,389 | | | |
| ,, pieces ... | 4,708 | ... | 14,088 | ... |
| **TOTAL RECEIPTS** ... | | | 6,84,698 | ... |
| **GRAND TOTAL** | ... | ... | 6,85,057 | ... |
| Total for 1888-89 .. | ... | ... | 6,95,188 | ... |

| | | | | |
|---|---|---|---|---|
| **DISPOSALS.** | | | | |
| REMOVED BY PURCHASERS FROM DEPÔTS | | | | |
| Bamboos ... | 6,79,668 | | | |
| ,, pieces ... | 4,474 | ... | 6,84,142 | ... |
| **TOTAL DISPOSALS.** | | ... | 6,84,142 | ... |
| **BALANCE AT CLOSE OF THE YEAR.** | | | | |
| *Ambala Division.* | | | | |
| Bamboos ... | 350 | | | |
| ,, pieces ... | 556 | | 915 | ... |
| **TOTAL BALANCE.** | | ... | 915 | ... |
| **GRAND TOTAL** | ... | ... | 6,85,057 | ... |
| Total for 1888-89 | ... | ... | 6,95,188 | ... |

**Form No. 56.**

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1889-90.—(continued).

| Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|
| **BALANCE.** | | | | |
| (1). IN HAND AT COMMENCEMENT OF THE YEAR. | | | | |
| *Hasara Division.* | | | | |
| Shingles ... ... | 97,930 | 687 | | |
| Dhajjies ... ... | 11,575 | 151 | | |
| | | | 1,09,523 | 788 |
| Turpentine (mds). | 1 | ... | | |
| | | | 1 | ... |
| *Kulu Division.* | | | | |
| Turpentine (mds). | 5 | ... | | |
| | | | 5 | ... |
| *Jhelum Division.* | | | | |
| Grass (mds). ... | 1,437 | ... | | |
| | | | 1,437 | ... |
| *Multan Division.* | | | | |
| Grass (mds). ... | 187 | ... | | |
| | | | 187 | ... |
| Total ... | ... | ... | 1,11,155 | 788 |
| (2). OMITTED IN PREVIOUS RETURNS. | | | | |
| Paser handles ... | 70 | 10 | | |
| | | | 70 | 10 |
| **TOTAL BALANCE** | | ... | 1,11,225 | 798 |
| **RECEIPTS.** | | | | |
| TRUE RECEIPTS. | | | | |
| Received from Forests during the year ... | ... | ... | | |
| Shingles ... | 1,01,410 | 659 | | |
| Biar pieces ... | 2 | 40 | | |
| Paser handles ... | 200 | 10 | | |
| | | | 1,01,612 | 709 |
| Turpentine (mds). | 4 | ... | | |
| Kuth roots ,, | 2 | ... | | |
| Kalbir roots ,, | 6 | ... | | |
| Grass ,, | 13,270 | ... | | |
| Chir seed (10 seers) | ... | ... | | |
| | | | 13,282 | ... |
| Received in Forest Cases. | | | | |
| Grass (mds). ... | 39 | ... | | |
| Gum ( ,, ) ... | 1 | ... | | |
| | | | 40 | ... |
| Mill Stone (No.) ... | 2 | ... | | |
| | | | 2 | ... |
| TOTAL TRUE RECEIPTS. | | | 1,14,936 | 709 |
| CROSS RECEIPTS. | | | | |
| Received by transfer from other Classes. | | | | |
| Bed legs ... | 16 (a) | ... | | |
| | | | 16 | ... |
| *Carried over* ... | ... | ... | 16 | ... |

| Particulars. | No or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|
| **MISCELLANEOUS PRODUCE.** | | | | |
| **DISPOSALS.** | | | | |
| TRUE DISPOSALS. | | | | |
| Sold from depôts. | | | | |
| Shingles ... | 68,300 | 444 | | |
| Dhajjies ... | 9,150 | 110 | | |
| Biar pieces ... | 2 | 40 | | |
| Paser handles ... | 200 | 10 | | |
| | | | 77,652 | 613 |
| Turpentine (mds.) | 6 | ... | | |
| Kuth roots ( ,, ) | 2 | ... | | |
| Grass ( ,, ) | 9,419 | ... | | |
| | | | 9,427 | ... |
| Chir seed (10 seers) | | | | |
| Sold locally. | | | | |
| Grass (mds). ... | 30 | ... | | |
| Gum ( ,, ) ... | 1 | ... | | |
| | | | 40 | ... |
| Mill stone (No ) ... | 2 | ... | | |
| | | | 2 | ... |
| Lost by drvage, &c. | | | | |
| Grass (mds). ... | 1,207 | ... | | |
| | | | 1,207 | ... |
| TOTAL TRUE DISPOSALS ... | ... | ... | 88,328 | 613 |
| CROSS DISPOSALS | | | | |
| Transferred to other Depôts. | | | | |
| Shingles ... | 99,110 | 644 | | |
| Paser handles ... | 200 | 10 | | |
| | | | 99,310 | 654 |
| Turpentine(11 seers) | ... | ... | | |
| Kuth roots (mds). | 4 | ... | | |
| Kalbir roots ( ,, ) | 6 | ... | | |
| Grass ( ,, ) | 100 | ... | | |
| | | | 110 | ... |
| TOTAL CROSS DISPOSALS ... | ... | ... | 99,420 | 654 |
| **TOTAL DISPOSALS** | | ... | 1,87,748 | 1,267 |
| **BALANCE AT CLOSE OF THE YEAR.** | | | | |
| *Hasara Division.* | | | | |
| Shingles ... | 1,81,060 | 852 | | |
| Dhajjies ... | 2,425 | 32 | | |
| Paser handles ... | 70 | 10 | | |
| Bed legs (No.) ... | 16 | ... | | |
| | | | 1,33,571 | 894 |
| Turpentine (mds.) | 1 | ... | | |
| Kalbir roots ( ,, ) | 6 | ... | | |
| Grass ( ,, ) | 155 | ... | | |
| | | | 162 | ... |
| *Bashahr Division.* | | | | |
| Turpentine (mds.) | 3 | ... | | |
| | | | 3 | ... |

(a) Transferred from firewood.

**Form No. 56.**

## ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPOTS OR SOLD LOCALLY DURING THE YEAR 1889-90.—(concluded).

| Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. | Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|---|---|---|---|---|
| *Brought forward* ... | ... | ... | 16 | ... | *Lahore Division.* | | | | |
| Received by transfer from other Depôts. | | | | | Grass (mds.) ... | 2,573 | ... | 2,573 | ... |
| Shingles ... | 99,110 | 644 | | | | | | | |
| Paser handles ... | 200 | 10 | | | *Multan Division.* | | | | |
| | | | 99,310 | 654 | | | | | |
| Turpentine (11) seers | | | | | | | | | |
| Kuth roots (mds.) .. | 4 | ... | | | | | | | |
| Kalbir roots ( ,, ) ... | 6 | ... | | | Grass (mds.) ... | 1,540 | ... | | |
| Grass ( ,, ) ... | 100 | ... | | | | | | 1,540 | ... |
| | | | 110 | ... | | | | | |
| TOTAL CROSS RECEIPTS ... | | | 99,436 | 654 | | | | | |
| **TOTAL RECEIPTS** | | ... | 2,14,372 | 1,363 | **TOTAL BALANCE** | | ... | 1,37,849 | 894 |
| **GRAND TOTAL** | ... | ... | 3,25,597 | 2,161 | **GRAND TOTAL** | ... | ... | 3,25,597 | 2,161 |
| Total for 1888-89.. | | | 2,35,206 | 1,582 | Total for 1888-89. | ... | ... | 2,35,206 | 1,582 |

**Form No. 57 A.**

## ABSTRACT SHOWING THE VALUE OF TIMBER AND OTHER PRODUCE AT SALE DEPOTS FOR THE YEAR 1889-90.

| Description of Timber and other produce. | *On hand at commencement of the year* | | | *On hand at close of the year.* | | | *Difference in Value.* | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| | No. | Cubic feet. | Value. | No. | Cubic feet. | Value | In favor of the year. | Against the year. | |
| | | | Rs. | | | Rs. | Rs. | Rs. | |
| **TIMBER.** | | | | | | | | | |
| Sale Depôts. | | | | | | | | | |
| Deodar (logs) ... ... | 5,868 | 1,88,180 | 1,26,999 | 9,939 | 2,00,004 | 1,61,618 | 34,709 | ... | |
| Pine ,, ... ... | 220 | 4,932 | 2,174 | 4,920 | 50,633 | 10,711 | 8,537 | ... | |
| Deodar scantlings ... | 3,062 | 2,186 | 2,186 | 3,189 | 2,499 | 2,499 | 313 | ... | |
| Pine scantlings and others | 660 | 1,107 | 495 | 2,252 | 3,084 | 1,991 | 1,496 | ... | |
| B. G. sleepers ... ... | 4,677 | 17,668 | 0,303 | 32,393 | 1,15,791 | 67,643 | 58,340 | ... | |
| N. G. ,, ... ... | 99 | 152 | 81 | 1,555 | 2,725 | 1,536 | 1,455 | ... | |
| Pine ,, ... ... | 1 | 2 | 1 | ... | ... | ... | ... | 1 | |
| Boxwood pieces ... ... | 11,085 | 6,978 | 18,482 | 9,006 | 5,725 | 13,710 | ... | 4,772 | |
| Scraps and pieces ... | 627 | 600 | 209 | 2,841 | 9,123 | 1,908 | 1,699 | ... | |
| Shingles ... ... ... | 97,950 | 637 | 487 | 50,830 | 389 | 437 | ... | 50 | |
| Pencil cedar ... ... | 8 | 142 | 140 | ... | ... | ... | ... | 140 | |
| Dhajjies ... ... ... | 11,575 | 151 | 69 | 2,425 | 32 | 17 | ... | 52 | |
| Pine Poles ... ... | ... | ... | ... | 11 | 11 | 4 | 4 | ... | |
| Total ... | 1,35,838 | 2,22,735 | 1,60,536 | 1,28,460 | 4,80,916 | 2,62,074 | 1,01,538 | ... | |
| Forest Depôts. | | | | | | | | | |
| Shingles ... ... ... | ... | ... | ... | 71,230 | 463 | 299 | 299 | ... | |
| Deodar (logs) ... ... | 9,178 | 2,50,938 | 1,32,851 | 6,428 | 1,81,551 | 82,315 | ... | 50,536 | |
| Pine ,, ... ... | 116 | 1,652 | 215 | 2,334 | 48,261 | 6,060 | 5,845 | ... | |
| Deodar scantlings ... | 2,554 | 2,982 | 2,230 | 1,087 | 1,259 | 942 | ... | 1,288 | |
| Pine and other scantlings | 5,170 | 6,604 | 2,603 | 3,328 | 4,657 | 1,927 | ... | 676 | |
| B. G. sleepers ... ... | 17,437 | 60,544 | 22,114 | 22,251 | 77,861 | 1,13,880 | 91,716 | ... | |
| N. G. ,, ... ... | ... | ... | ... | 1,274 | 1,940 | 1,289 | 1,289 | ... | |
| Miscellaneous pieces ... | 4,400 | 5,158 | 525 | 2,157 | 2,085 | 139 | ... | 386 | |
| Deodar trees ... ... | ... | ... | ... | 20 | 2,060 | 300 | 300 | ... | |
| Total ... | 38,855 | 3,27,878 | 1,60,538 | 1,101 09 | 3,20,137 | 2,07,101 | 46,563 | ... | |
| Total Timber ... | 1,74,693 | 5,50,613 | 3,21,074 | 2,38,569 | 8,01,053 | 4,69,175 | 1,48,101 | ... | |
| **FIREWOOD, CHARCOAL, BAMBOOS, &c.** | | | | | | | | | |
| Sale Depôts. | | | | | | | | | |
| Turpentine (maunds) ... | ... | ... | ... | 1 | ... | 8 | 8 | .. | |
| Firewood (cubic feet) ... | ... | 3,52,722 | 12,684 | ... | 6,64,415 | 35,266 | 22,582 | ... | |
| Bamboos ... | 37 | ... | 1 | 915 | ... | 20 | 19 | ... | |
| Charcoal (cubic feet) ... | ... | 1,943 | 69 | ... | 390 | 37 | ... | 32 | |
| Grass (maunds) ... ... | ... | ... | ... | 1,893 | ... | 591 | 591 | ... | |
| Miscellaneous (maunds) | ... | ... | ... | 22 | ... | 25 | 25 | ... | |
| Total ... | 37 | 3,54,665 | 12,7 4 | 2,831 | 6,64,805 | 35,947 | 23,198 | ... | |
| Forest Depôts. | | | | | | | | | |
| Paser handles ... ... | ... | ... | ... | 70 | 10 | 1 | 1 | ... | |
| Firewood (cubic feet) ... | ... | 56,876 | 901 | ... | 15,51,984 | 84,599 | 83,698 | ... | |
| Charcoal ( ,, ) ... | ... | 2,505 | 61 | ... | 663 | 30 | ... | 22 | |
| Grass (maunds) ... ... | 1624 | ... | 530 | 2,375 | ... | 443 | ... | 96 | |
| Turpentine (maunds) ... | *5 | ... | 19 | 3 | ... | 10 | ... | 9 | * Last year's figure corrected. |
| Total ... | 1,629 | 59,381 | 1,520 | 2,448 | 15,52,657 | 85,092 | 83,672 | ... | |
| Total Firewood, &c. ... | 1,666 | 4,14,046 | 14,274 | 5,279 | 22,17,462 | 1,21,039 | 1,06,765 | ... | |
| Grand Total ... | ... | ... | 3,35,348 | ... | ... | 5,90,214 | 2,54,866 | ... | |
| Total for 1888-1889 ... | ... | ... | 2,94,709 | ... | ... | 3,35,348 | 40,639 | ... | |

**Form No. 57B**

## ABSTRACT SHOWING THE VALUE OF LIVE AND DEAD STOCK FOR THE YEAR 1889-90.

| | *On hand at commencement of the year.* | | | *On hand at close of the year.* | | | *Difference in value.* | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | No. | Cubic feet. | Value. | No. | Cubic feet | Value. | In favor of the year. | Against the year. | |
| | | | Rs | | | Rs | Rs | Rs | |
| **DEAD STOCK** | | | | | | | | | |
| Hazara Division .. | 910 | ... | 9,906 | 955 | ... | 9,663 | ... | 243 | |
| Rawalpindi ,, ... ... | 700 | ... | 1,383 | 603 | ... | 1,182 | ... | 201 | |
| Chamba ,, ... ... | 2,541 | ... | 3,119 | 2,606 | ... | 2,948 | ... | 171 | |
| Kangra ,, ... ... | 1,171 | ... | 6,404 | 1,142 | ... | 6,614 | 120 | ... | |
| Kulu ,, ... ... | 1,705 | ... | 3,730 | 1,610 | ... | 3,371 | ... | 359 | |
| Bashahr ,, ... ... | 1,121 | ... | 5151 | 1,000 | ... | 5,170 | 19 | ... | |
| Jhelum ,, ... ... | 647 | ... | 6,833 | 736 | ... | 6,697 | ... | 136 | |
| Chenab ,, ... ... | ... | ... | 7,833 | ... | ... | 7,341 | 8 | ... | |
| Lahore ,, ... ... | 3,000 | ... | 12,120 | 2,816 | ... | 11,310 | ... | 810 | |
| Moultan ,, ... ... | 437 | ... | 1,414 | 570 | ... | 1,534 | 120 | ... | |
| Montgomery ,, ... ... | 262 | ... | 1,045 | 271 | ... | 1,064 | 19 | ... | |
| Ambala ,, ... ... | 2,229 | ... | 1,288 | 2,259 | ... | 1,430 | 142 | ... | |
| Direction ,, ... ... | 210 | ... | 2,231 | 248 | ... | 2,718 | 487 | ... | |
| Working Plans ... ... | 130 | ... | 1,283 | 121 | ... | 630 | ... | 653 | |
| Total ... | ... | ... | 63,332 | ... | ... | 61,674 | ... | 1,658 | |
| **LIVE STOCK.** | | | | | | | | | |
| Bashahr Division ... | 5 | ... | 650 | 4 | ... | 580 | ... | 70 | |
| Chenab ... ... | 6 | | 150 | 5 | | 125 | ... | 25 | |
| Lahore ... ... ... | 24 | ... | 120 | 16 | ... | 80 | ... | 40 | |
| Total ... ... | ... | ... | 920 | ... | ... | 785 | ... | 135 | |
| Grand Total .. | ... | ... | 64,252 | ... | ... | 62,459 | ... | 1,793 | |
| Total for 1888-89 ... | ... | ... | 67,273 | ... | .. | 64,252 | ... | 3,021 | |

**Form No. 58.**

## SUMMARY OF REVENUE OF THE DIFFERENT DIVISIONS DURING 1889-90.

| BUDGET HEADS. | Direction | | | Bashahr Division. | | | Ambala Division. | | | Kulu Division. | | | Kangra Division. | | | Chamba Division. | | | Lahore Division. | | | Montgomery Division. | | | Multan Division. | | | Chenab Division. | | | Jhelum Division. | | | Rawalpindi Division. | | | Hazara Division. | | | Total. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RECEIPTS.** | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. |
| I.—Timber and other produce removed from the Forests by Government Agency:— | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *a.* Timber | ... | ... | ... | 5,619 | 0 | 2 | 58,183 | 2 | 0 | ... | ... | ... | 1,12,097 | 7 | 5 | 1,41,338 | 8 | 0 | 6,190 | 9 | 0 | ... | ... | ... | ... | ... | ... | 71,263 | 2 | 6 | 31,168 | 2 | 10 | ... | ... | ... | 11,729 | 1 | 8 | 4,37,589 | 1 | 7 |
| *b.* Firewood and charcoal | ... | ... | ... | ... | ... | ... | 45 | 4 | 9 | ... | ... | ... | 116 | 2 | 9 | 526 | 8 | 9 | 22,485 | 8 | 1 | 38,112 | 14 | 4 | 34,747 | 10 | 6 | ... | ... | ... | 57 | 10 | 8 | ... | ... | ... | 2,134 | 5 | 9 | 98,226 | 1 | 7 |
| *c.* Bamboos | ... | ... | ... | ... | ... | ... | 387 | 15 | 6 | ... | ... | ... | 12,675 | 12 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 13,063 | 11 | 8 |
| *d.* Sandal-wood | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| *e.* Grass and other minor produce | ... | ... | ... | ... | ... | ... | ... | ... | ... | 11 | 6 | 0 | ... | ... | ... | ... | ... | ... | 383 | 2 | 1 | ... | ... | ... | 502 | 13 | 0 | ... | ... | ... | 322 | 9 | 7 | ... | ... | ... | 25 | 15 | 3 | 1,245 | 13 | 11 |
| II.—Timber and other produce removed from the Forests by consumers or purchasers— | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *a.* Timber | ... | ... | ... | ... | ... | ... | 5 | 12 | 11 | 893 | 12 | 6 | 10,428 | 2 | 6 | 74 | 15 | 10 | 1,190 | 12 | 0 | 606 | 1 | 10 | 655 | 5 | 5 | ... | ... | ... | 128 | 14 | 0 | 7,271 | 7 | 8 | 3,786 | 0 | 8 | 25,041 | 5 | 4 |
| *b.* Firewood and charcoal | ... | ... | ... | ... | ... | ... | 104 | 10 | 0 | 21 | 3 | 3 | 231 | 15 | 6 | 1,206 | 3 | 9 | 5,470 | 15 | 0 | 33,675 | 10 | 6 | 13,116 | 5 | 6 | 16,436 | 7 | 10 | 195 | 11 | 6 | 14,265 | 1 | 6 | 2,755 | 14 | 2 | 87,480 | 2 | 6 |
| *c.* Bamboos | ... | ... | ... | ... | ... | ... | 23 | 4 | 6 | ... | ... | ... | 53 | 2 | 0 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 25 | 0 | 0 | ... | ... | ... | 101 | 6 | 6 |
| *d.* Grazing and fodder grass | ... | ... | ... | ... | ... | ... | 2,550 | 11 | 9 | 121 | 5 | 3 | 5,326 | 12 | 3 | 362 | 11 | 6 | 32,627 | 12 | 9 | 32,497 | 3 | 0 | 11,099 | 8 | 5 | 94,557 | 6 | 1 | 12,382 | 13 | 6 | 5,280 | 14 | 4 | 8,447 | 8 | 3 | 2,05,251 | 11 | 1 |
| *e.* Other minor produce | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 24 | 2 | 0 | ... | ... | ... | 4,015 | 2 | 0 | 4,213 | 10 | 11 | 668 | 8 | 0 | 786 | 8 | 0 | 235 | 4 | 0 | 445 | 11 | 0 | 105 | 1 | 9 | 10,543 | 15 | 8 |
| III.—Drift and waif wood and confiscated Forest produce | ... | ... | ... | ... | ... | ... | 701 | 1 | 9 | 9 | 8 | 0 | 341 | 15 | 11 | 784 | 13 | 7 | ... | ... | ... | 44 | 15 | 9 | 226 | 0 | 6 | 2,332 | 9 | 10 | 14723 | 5 | 2 | 977 | 7 | 10 | 22 | 12 | 6 | 20,164 | 10 | 10 |
| IV.—Revenue from Forests not managed by Government— | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *a.* Duty on foreign timber and other forest produce | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| *b.* Revenue from shared and private forests | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,497 | 6 | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 13 | 0 | 0 | 1,510 | 6 | 3 |
| V.—Miscellaneous— | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *a.* Fines and forfeitures | ... | ... | ... | 42 | 0 | 0 | ... | ... | ... | ... | ... | ... | 205 | 10 | 0 | ... | ... | ... | 44 | 14 | 0 | ... | ... | ... | ... | ... | ... | 132 | 0 | 6 | ... | ... | ... | 20 | 0 | 0 | 519 | 12 | 0 | 964 | 4 | 6 |
| *b.* Refunds | 22 | 0 | 0 | 11 | 10 | 1 | 3 | 10 | 0 | 15 | 6 | 0 | 3 | 3 | 0 | 0 | 11 | 4 | 1 | 0 | 0 | 156 | 6 | 9 | 17 | 8 | 9 | 2 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 4 | 3 | 6 | 238 | 12 | 8 |
| *c.* Other sources | ... | ... | ... | ... | ... | ... | 3,227 | 15 | 2 | 552 | 7 | 6 | 1,631 | 1 | 6 | 678 | 14 | 1 | 141 | 2 | 3 | 679 | 7 | 8 | 656 | 4 | 9 | 3,838 | 11 | 10 | 5,768 | 2 | 4 | 2,840 | 9 | 4 | 281 | 10 | 6 | 20,291 | 6 | 11 |
| Total Receipts | 22 | 0 | 0 | 5,672 | 10 | 3 | 65,233 | 8 | 4 | 1,625 | 0 | 6 | 1,44,632 | 13 | 3 | 1,44,973 | 6 | 10 | 72,580 | 13 | 2 | 1,09,986 | 6 | 9 | 61,687 | 0 | 10 | 1,89,348 | 14 | 7 | 64,997 | 10 | 10 | 31,127 | 3 | 8 | 29,825 | 6 | 0 | 9,21,712 | 15 | 0 |

CALCUTTA,
*The 5th June 1890.*

J. BRIDGNELL,
*Chief Superintendent in charge Forest Account Branch.*

**Form No. 58.**

## SUMMARY OF EXPENDITURE OF THE DIFFERENT DIVISIONS DURING 1889-90.

| BUDGET HEADS. | Direction. | Bashahr Division. | Ambala Division. | Kulu Division. | Kangra Division. | Chamba Division. | Lahore Division. | Montgomery Division. | Multan Division. | Chenab Division. | Jhelum Division. | Rawalpindi Division. | Hazara Division. | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. | Rs. A. P. |
| **A.—CONSERVANCY AND WORKS.** | | | | | | | | | | | | | | |
| I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY— | | | | | | | | | | | | | | |
| *a.* Timber ... | 384 6 0 | 38,084 8 2 | 14,756 13 1 | 13,933 10 5 | 12,290 0 7 | 73,271 15 11 | 535 12 1 | ... ... ... | 195 7 7 | 977 13 0 | 5,537 4 9 | 105 11 7 | 10,161 14 3 | 1,70,244 5 5 |
| *b.* Firewood and charcoal ... | ... ... ... | ... ... ... | 8 12 0 | ... ... ... | ... ... ... | ... ... ... | 8,364 5 3 | 49,688 12 1 | 15,697 0 3 | ... ... ... | 31 9 0 | ... ... ... | 1,457 13 1 | 75,248 3 8 |
| *c.* Bamboos ... | ... ... ... | ... ... ... | 16 0 9 | ... ... ... | 2,420 2 0 | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | 2,436 2 9 |
| *d.* Sandal-wood ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... |
| *e.* Grass & other minor produce | ... ... ... | ... ... ... | ... ... ... | 5 12 0 | ... ... ... | ... ... ... | 2,154 12 1 | ... ... ... | 953 14 11 | ... ... ... | 50 14 0 | ... ... ... | 71 14 6 | 3,237 3 6 |
| II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | 15 4 9 | 141 0 0 | 9 12 0 | 590 11 6 | 108 10 2 | 360 5 5 | ... ... ... | 517 2 3 | 179 14 9 | 1,862 12 10 |
| III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE ... | ... ... ... | 24 3 0 | 1,113 9 6 | ... ... ... | 161 6 7 | 474 7 2 | ... ... ... | ... ... ... | 162 1 2 | 484 13 5 | 3,713 15 10 | 449 10 4 | ... ... ... | 6,584 3 0 |
| IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT— | | | | | | | | | | | | | | |
| *a.* Duty on foreign timber and other forest produce ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... |
| *b.* Revenue from shared and private forests ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... |
| V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT. | ... ... ... | 10,150 0 0 | 455 0 0 | 29 4 0 | 2,188 8 0 | 21,000 0 0 | ... ... ... | ... ... ... | ... ... ... | 79 0 9 | ... ... ... | ... ... ... | 2,184 3 7 | 36,086 0 |
| VI.—LIVE STOCK, STORES, TOOLS AND PLANT— | | | | | | | | | | | | | | |
| *a.* Purchase of cattle ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... | ... ... ... |
| *b.* Feed and keep of cattle ... | ... ... ... | 558 15 9 | 156 4 2 | ... ... ... | ... ... ... | ... ... ... | 98 14 3 | ... ... ... | ... ... ... | 115 3 3 | ... ... ... | ... ... ... | ... ... ... | 929 5 5 |
| *c.* Purchase of stores, tools and plant ... | 91 8 0 | 131 6 3 | 184 0 0 | 275 2 2 | 407 3 0 | 180 5 7 | 41 10 0 | 14 0 0 | 146 7 0 | 150 1 0 | 1 12 6 | 52 3 1 | 265 8 6 | 1,941 3 1 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VII.—COMMUNICATIONS AND BUILDINGS— | | | | | | | | | | | | | | |
| a. Roads and bridges ... | ... | 1,565 2 6 | 198 15 4 | 87 13 0 | 79 6 0 | 3,003 6 9 | 590 9 6 | ... | ... | 10 0 0 | 41 10 3 | 285 11 8 | 340 3 9 | 6,292 14 0 |
| b. Buildings ... | ... | 928 8 3 | 457 11 8 | 198 14 8 | 258 5 0 | 1,288 7 11 | 94 1 1 | 103 7 3 | 778 5 10 | 260 2 10 | 272 3 4 | 565 12 1 | 316 2 6 | 5,522 1 11 |
| c. Other works .. | ... | ... | 125 8 8 | ... | 6 15 0 | ... | ... | ... | 77 4 0 | ... | ... | ... | ... | 209 11 8 |
| VIII.—DEMARCATION IMPROVEMENT AND EXTENSION OF FORESTS— | | | | | | | | | | | | | | |
| a. Demarcation ... | 49 8 0 | 592 4 9 | 223 5 1 | 239 1 0 | 46 8 6 | 857 6 3 | 278 10 10 | 369 0 10 | 1,162 7 7 | ... | 7 8 7 | 1,631 15 5 | 168 6 10 | 5,626 3 8 |
| b. Compensation for land and rights ... | ... | 49 0 0 | ... | ... | ... | ... | ... | ... | ... | 51 0 6 | ... | 193 3 0 | ... | 293 3 6 |
| c. Surveys and working plans | 732 15 5 | 7,728 12 9 | 8 3 6 | ... | 99 3 1 | 184 2 0 | ... | ... | 72 6 0 | 2 0 0 | ... | ... | 128 8 4 | 8,956 3 1 |
| d. Sowing and planting ... | 35 9 0 | 778 12 6 | 2,186 2 3 | 652 0 1 | 731 7 7 | 1,751 0 0 | 19,249 6 7 | 14 3 6 | 288 7 0 | 691 13 1 | 397 9 7 | 108 4 0 | 1,030 14 3 | 27,915 0 5 |
| e. Protection from fire ... | ... | 40 0 0 | 439 1 10 | 74 5 9 | 271 5 6 | 220 4 6 | ... | 121 6 9 | 614 12 7 | ... | ... | 212 2 11 | 238 9 0 | 2,232 0 10 |
| f. Other works ... | ... | 149 8 0 | 76 10 0 | 497 4 3 | 1 4 0 | 783 5 9 | 12 8 6 | 4 2 0 | 914 1 11 | 212 2 6 | ... | 54 10 0 | 29 10 6 | 2,735 3 5 |
| IX.—MISCELLANEOUS— | | | | | | | | | | | | | | |
| a. Refunds ... | ... | ... | ... | 3 0 0 | 407 5 3 | 1 6 0 | ... | 0 1 0 | ... | ... | 21 8 0 | ... | 100 0 0 | 533 4 3 |
| b. Law charges ... | 2 0 0 | 19 5 0 | ... | ... | ... | ... | ... | 44 1 0 | 2 3 0 | 30 8 0 | ... | 5 12 0 | 22 13 7 | 126 10 7 |
| c. Other charges ... | 299 1 0 | 377 1 6 | 0 6 0 | 2 15 0 | 4 14 3 | 16 7 0 | ... | ... | 23 7 0 | 18 8 0 | ... | 12 8 3 | 67 3 9 | 822 7 9 |
| TOTAL A.—CONSERVANCY AND WORKS ... | 1,594 15 5 | 61,177 8 5 | 20,406 7 10 | 15,999 2 4 | 19,398 3 1 | 1,03,263 10 10 | 31,430 6 2 | 50,949 13 11 | 21,197 0 0 | 3,383 7 9 | 10,075 15 10 | 4,194 10 7 | 16,763 12 8 | 3,59,835 2 10 |
| **B.—ESTABLISHMENT.** | | | | | | | | | | | | | | |
| I.—SALARIES— | | | | | | | | | | | | | | |
| a. Conservators ... | 12,506 7 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 12,506 7 2 |
| b. Superior officers ... | 12,123 1 0 | 9,465 3 4 | 7,950 0 0 | 6,563 14 2 | 10,199 15 8 | 9,750 0 0 | 10,582 8 0 | 2,907 6 8 | 12,397 13 0 | 5,900 0 0 | 7,366 2 1 | 7,800 0 0 | 12,200 0 0 | 1,15,205 15 11 |
| c. Subordinate Forest and Depôt Establishments... | 80 0 0 | 3,995 7 3 | 3,458 11 4 | 3,670 14 8 | 7,975 2 5 | 11,360 4 5 | 7,356 6 3 | 2,809 14 11 | 5,680 3 11 | 10,319 8 11 | 8,702 3 6 | 7,253 13 10 | 7,477 1 7 | 80,139 13 0 |
| d. Office Establishments ... | 5,832 2 2 | 1,375 3 3 | 1,052 6 11 | 895 0 0 | 1,550 0 0 | 2,189 1 4 | 1,662 11 2 | 738 9 10 | 1,545 0 0 | 1,764 8 0 | 1,724 0 0 | 1,299 2 10 | 1,866 0 0 | 23,403 13 6 |
| e. Deputation and special allowances ... | 77 6 8 | 2,400 ... ... | ... | 191 13 5 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2,669 4 1 |
| II.—TRAVELLING ALLOWANCES— | | | | | | | | | | | | | | |
| a. Conservators ... | 2,720 9 9 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2,720 9 9 |
| b. Superior Officers ... | 2,981 14 1 | 2,468 0 0 | 2,037 10 0 | 1,043 8 0 | 2,175 14 8 | 1,527 2 0 | 900 0 1 | 949 9 4 | 1,179 10 0 | 778 13 4 | 1,276 4 4 | 744 14 0 | 1,082 5 6 | 19,145 9 4 |
| c. Subordinate Forest and Depôt Establishments ... | ... | 962 7 4 | 405 12 1 | 423 8 3 | 716 7 10 | 1,149 9 1 | 595 11 7 | 445 4 4 | 961 10 10 | 1,092 9 2 | 607 1 7 | 908 3 8 | 581 6 8 | 8,849 12 5 |
| d. Office Establishments ... | 732 15 4 | 573 14 8 | 382 15 10 | 229 15 7 | 253 11 0 | 267 2 1 | 88 10 7 | 130 10 11 | 65 0 7 | 194 14 0 | 170 4 0 | 84 14 4 | 133 5 0 | 3,308 5 11 |
| III.—CONTINGENCIES— | | | | | | | | | | | | | | |
| a. Stationery ... | 47 2 6 | 22 6 3 | 94 15 0 | 74 2 10 | 132 10 9 | 86 15 3 | 43 12 3 | 33 1 3 | 70 2 4 | 145 2 8 | 66 11 11 | 78 0 0 | 66 13 0 | 961 15 6 |
| b. Carriage of tents and records | 497 11 1 | 147 9 9 | 149 8 3 | 225 13 0 | 641 12 0 | 362 7 6 | 9 9 0 | 52 3 4 | 116 4 6 | 103 11 0 | 104 14 6 | 102 9 1 | 336 4 7 | 2,850 5 7 |
| c. Rents, rates and taxes ... | 1,000 0 0 | 62 8 0 | 360 0 0 | 36 0 0 | 420 0 0 | 50 0 0 | 450 4 11 | 336 2 0 | 360 0 0 | 423 0 0 | 343 8 7 | 624 0 0 | 505 0 0 | 4,970 7 6 |
| d. Pay of Police Guards ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| e. Official postage ... | 1,108 9 6 | 107 6 9 | 295 4 6 | 36 12 6 | 309 10 0 | 253 12 6 | 146 10 0 | 88 6 0 | 220 2 6 | 303 11 3 | 239 14 0 | 357 13 0 | 254 5 6 | 3,722 6 0 |
| f. Sundries ... | 1,157 4 3 | 1,219 13 4 | 324 0 10 | 355 12 11 | 225 0 6 | 308 5 9 | 110 9 10 | 212 7 10 | 189 0 1 | 559 7 6 | 189 14 8 | 193 6 1 | 429 9 7 | 5,474 13 2 |
| TOTAL B.—ESTABLISHMENTS ... | 40,865 3 0 | 22,799 15 11 | 16,511 4 9 | 13,747 6 4 | 24,600 4 10 | 27,304 11 11 | 21,946 13 8 | 8,763 12 5 | 22,784 15 9 | 21,585 5 10 | 20,790 15 2 | 19,446 12 10 | 24,932 3 5 | 2,86,019 10 10 |
| GRAND TOTAL OF EXPENDITURE ... | 42,460 2 5 | 83,977 8 4 | 36,917 12 7 | 29,746 5 8 | 43,998 7 11 | 1,30,568 6 9 | 53,377 3 10 | 59,653 10 4 | 43,981 15 9 | 24,968 13 7 | 30,866 15 0 | 23,641 7 5 | 41,696 0 1 | 6,45,854 13 8 |

CALCUTTA,
*The 5th June 1890.*

J. BRIDGNELL,
*Chief Superintendent in charge Forest Account Branch.*

# Dr. ACCOUNT CURRENT FOR THE YEAR 1889-90. Cr.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rs. | A. | P. | Rs. | A. | P. | | Rs. | A. | P. | Rs. | A. | P. |
| *To Cash Balance* ... ... ... ... ... | ... | ... | ... | 759 | 13 | 6 | *By Expenditure as per Annual Summary Form No. 58* ... ... | ... | ... | ... | 6,45,854 | 15 | 8 |
| „ *VIII.—Assessed Taxes*— | | | | | | | „ *Deposits* ... ... ... ... | ... | ... | ... | 11,392 | 10 | 8 |
| Income Tax—deductions from salaries ... ... | ... | ... | ... | 3 891 | 9 | 11 | „ *Forest Cash Remittances (Local)*— | | | | | | |
| „ *Revenue as per Annual Summary, Form No 58* ... ... | ... | ... | ... | 9 21,712 | 15 | 0 | Remittances to Treasuries ... ... ... | 6,81,819 | 5 | 11 | | | |
| „ *Service Funds*— | | | | | | | Inter-Divisional Transfers ... ... ... | 6,896 | 13 | 1 | | | |
| Civil Fund—Ordinary, (Bengal) ... ... ... | ... | ... | ... | | | | | | | | 6 88,716 | 6 | 0 |
| „ Additional, (do.) ... ... ... | ... | ... | ... | | | | „ *Advances Recoverable* ... ... ... ... | ... | ... | ... | 3,00,030 | 8 | 5 |
| Military Fund (Bengals) ... ... ... | ... | ... | ... | | | | „ *Suspense* ... ... ... ... ... | ... | ... | ... | 0 | 0 | 2 |
| „ „ (Madras) ... ... ... | ... | ... | ... | | | | „ *Account Current (other Governments)*— | | | | | | |
| „ Orphan Fund—Bengal ... ... ... | ... | ... | ... | | | | Remittances to the Government of India ... ... | 4,118 | 14 | 0 | | | |
| Uncovenanted Service Family Pension Fund (Bengal) ... | 3,217 | 7 | 0 | | | | Ditto ditto Burma ... .. | 0 | 8 | 0 | | | |
| General Family Pension Fund .. ... ... | ... | ... | ... | | | | Ditto ditto Central Provinces .. | 4,652 | 6 | 7 | | | |
| Hindu Family Annuity Fund ... ... ... | ... | ... | ... | | | | „ *Inter-Departmental Transfers*— Rs. A. P. | | | | 8,771 | 12 | 7 |
| | | | | 3 217 | 7 | 0 | Public Works Department, State Railways— | | | | | | |
| „ *Deposits* ... ... .. ... ... | ... | ... | ... | 51,929 | 1 | 8 | North-Western Railway ... 1,74,987 14 11 | | | | | | |
| „ *Forest Cash Remittances (Local)*— | | | | | | | Patiala-Bhatinda „ .. 45,546 0 0 | | | | | | |
| Forest Cheques drawn ... ... ... | 6,19,219 | 1 | 0 | | | | Public Works Deptt Ordinary Branches 30,783 6 0 | | | | | | |
| Inter-Divisional Transfers .. ... ... | 6,906 | 12 | 8 | | | | | 2,51,317 | 4 | 11 | | | |
| | | | | 6,26,125 | 13 | 8 | Military Department (Bengal) ... .. ... | 3,711 | 6 | 9 | | | |
| „ *Advances recoverable* .. .. ... ... | ... | ... | ... | 3,00,296 | 5 | 4 | *Civil Department*— Rs A. P. | | | | | | |
| „ *Suspense* ... .. ... ... | ... | ... | ... | 0 | 0 | 2 | Survey of India ... ... 7,697 0 0 | | | | | | |
| „ *Account Current (other Governments)*— | | | | | | | Miscellaneous ... ... 2,378 3 3 | | | | | | |
| Remittances from Government of India ... | 17,363 | 3 | 6 | | | | | 10,275 | 3 | 3 | | | |
| Ditto ditto. N.-W. P. & Oudh .. | 13.172 | 4 | 6 | | | | | | | | 2,65,303 | 14 | 11 |
| Ditto ditto Central Provinces | 29 | 9 | 8 | | | | | | | | | | |
| „ *Inter-Departmental Transfers*— | | | | | | | „ *Cash Balance* ... ... ... ... | ... | ... | ... | 716 | 7 | 7 |
| Rs A. P. | | | | | | | | | | | | | |
| Public Works Department, State Railways ... .. | ... | ... | ... | 30,565 | 1 | 8 | | | | | | | |
| North Western Provinces Railway 135 0 0 | | | | | | | | | | | | | |
| Ditto. Ordinary Branches 14,831 14 0 | | | | | | | | | | | | | |
| | 14,466 | 14 | 0 | | | | | | | | | | |
| Military Department ... .. ... .. | ... | ... | ... | | | | | | | | | | |
| *Civil Department*— Rs A. P. | | | | | | | | | | | | | |
| Jail ... ... ... 143 1 9 | | | | | | | | | | | | | |
| Survey of India Department .. 398 1 0 | | | | | | | | | | | | | |
| Miscellaneous .. .. 7,280 2 4 | | | | | | | | | | | | | |
| | 7,821 | 5 | 1 | | | | | | | | | | |
| | | | | 22,388 | 3 | 1 | | | | | | | |
| TOTAL ... .. | ... | ... | ... | 19,80,786 | 7 | 0 | TOTAL .. ... | ... | ... | ... | 19,80,786 | 7 | 0 |

CALCUTTA,
*The 5th June 1890*

J. BRIDGNELL,
*Chief Superintendent in charge Forest Account Branch.*

## Form No. 60.

### REVENUE RECEIVED AND OUTSTANDINGS ON ACCOUNT OF REVENUE DURING 1889-90.

| Division. | Particulars. | Outstandings at commencement of year | | | Value of sales and other revenue during year. | | | Total. | | | Amount realized during year. | | | Balance due to the Department at end of year. | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | Rs. | A. | P. | |
| Direction .. | ... | ... | ... | ... | 22 | 0 | 0 | 22 | 0 | 0 | 22 | 0 | 0 | ... | ... | ... | |
| Hazara ... | ... | 198 | 12 | 0 | 29,726 | 12 | 6 | 29,925 | 8 | 6 | 29,825 | 6 | 0 | 100 | 2 | 6 | |
| Rawalpindi ... | ... | ... | .. | | 31,127 | 3 | 8 | 31,127 | 3 | 8 | 31,127 | 3 | 8 | ... | ... | ... | (a). Written off, *vide* Secretary to Financial Commissioner's No. 1100, dated 17th January 1890, and Commissioner's No. 72, dated 21st February 1890, to Deputy Commissioner, Rs. 1,118-12-1 |
| Chamba ... | ... | 2,101 | 6 | 4 | 1,44,973 | 6 | 10 | 1,47,074 | 13 | 2 | 1,44,973 | 6 | 10 | 2,101 | 6 | 4 | |
| Kangra .. | ... | 1,247 | 0 | 0 | 1,43,659 | 13 | 3 | 1,44,906 | 13 | 3 | 1,44,632 | 13 | 3 | 274 | 0 | 0 | |
| Kulu ... | ... | ... | ... | ... | 1,625 | 0 | 6 | 1,625 | 0 | 6 | 1,625 | 0 | 6 | ... | ... | ... | |
| Bashahr ... | .. | ... | ... | ... | 5,672 | 10 | 3 | 5,672 | 10 | 3 | 5,672 | 10 | 3 | ... | ... | ... | |
| Jhelum ... | .. | 37 | 3 | 7 | 64,098 | 7 | 3 | 65,035 | 10 | 10 | 64,997 | 10 | 10 | 38 | 0 | 0 | (b). Revenue as per Form No. 58, Rs. 9,21,712-15-0 |
| Chenab ... | ... | 6,938 | 2 | 9 | 1,83,093 | 9 | 1 | 1,90,031 | 11 | 10 | 1,89,348 | 14 | 7 | 1,582 | 13 | 3 | |
| Lahore ... | ... | 2,109 | 4 | 0 | 74,694 | 15 | 5 | 76,804 | 3 | 5 | 72,580 | 13 | 2 | 4,223 | 6 | 3 | Amount written off under sanction Rs. 1,118-12-1 |
| Multan ... | ... | ... | ... | ... | 61,687 | 0 | 10 | 61,687 | 0 | 10 | 61,687 | 0 | 10 | ... | ... | ... | |
| Montgomery .. | .. | 4,166 | 11 | 6 | 1,07,452 | 4 | 6 | 1,11,610 | 0 | 0 | 1,11,105(a) | 2 | 10 | 513 | 13 | 2 | Rs. 9,22,831-11-1 |
| Ambala ... | ... | ... | ... | ... | 65,233 | 8 | 4 | 65,233 | 8 | 4 | 65,233 | 8 | 4 | ... | ... | ... | |
| Total ... | ... | 16,798 | 8 | 2 | 9,14,866 | 12 | 5 | 9,31,665 | 4 | 7 | 9,22,831(b) | 11 | 1 | 8,833 | 9 | 6 | |
| Total for 1888-89 ... | ... | 42,660 | 13 | 8 | 10,22,600 | 3 | 7 | 10,65,261 | 1 | 3 | 10,48,462 | 9 | 1 | 16,798 | 8 | 2 | |

## Form No. 61.

### OUTSTANDINGS AND LIABILITIES ON ACCOUNT OF CONTRACTORS AND DISBURSERS FOR 1889-90.

| Division. | Department Debtor. | | | Department Creditor. | | | Balance Due. | |
|---|---|---|---|---|---|---|---|---|
| | At commencement of year. | Recoveries in cash and value of supplies and work done during the year. | At close of year. | At commencement of year. | Payments made during year. | At close of year. | To Department (Outstandings.) | By Department (Liabilities.) |
| Direction ... ... ... | ... | 5,023 6 7 | 5,023 6 7 | 178 15 6 | 5,010 2 4 | 5,180 1 9 | 165 11 2 | ... |
| Bashahr ... ... ... | ... | 15,772 12 8 | 15,772 12 8 | 5,131 13 11 | 15,355 4 7 | 20,487 2 6 | 4,957 10 11 | 243 5 1 |
| Ambala ... ... ... | ... | 32,064 14 8 | 32,064 14 8 | 1,182 11 7 | 31,867 10 10 | 33,050 6 5 | 995 7 9 | ... |
| Kulu ... ... ... | ... | 34,018 12 2 | 34,018 12 2 | 457 8 5 | 33,725 2 7 | 34,182 11 0 | 163 14 10 | ... |
| Kangra ... ... ... | ... | 46,464 5 2 | 46,464 5 2 | 2,549 2 1 | 46,944 4 1 | 49,493 6 2 | 3,029 1 0 | ... |
| Chamba ... ... ... | ... | 91,251 8 8 | 91,251 8 8 | 155 10 5 | 91,194 9 4 | 91,350 3 9 | 99 11 1 | ... |
| Lahore ... ... ... | ... | 26,351 5 0 | 26,351 5 0 | 253 12 9 | 26,318 15 6 | 26,572 12 3 | 231 7 3 | ... |
| Montgomery ... ... ... | ... | 29,598 1 0 | 29,598 1 0 | 3 2 4 | 29,766 9 10 | 29,769 12 2 | 171 11 2 | ... |
| Multan ... ... ... | ... | 23,263 12 10 | 23,263 12 10 | 185 10 7 | 29,186 0 5 | 29,370 11 0 | 106 14 2 | ... |
| Chenab ... ... ... | ... | 9,940 8 0 | 9,940 8 0 | 237 3 0 | 9,889 0 0 | 10,126 3 0 | 185 10 6 | ... |
| Jhelum ... ... ... | ... | 17,122 15 7 | 17,122 15 7 | 92 5 6 | 17,314 8 3 | 17,406 13 9 | 283 14 2 | ... |
| Rawalpindi ... ... ... | ... | 14,717 5 1 | 14,717 5 1 | 64 5 0 | 14,727 11 11 | 14,792 1 8 | 74 12 7 | ... |
| Hazara ... ... ... | ... | 14,709 9 5 | 14,709 9 5 | 388 4 4 | 14,731 8 9 | 15,119 13 1 | 413 3 8 | ... |
| Total ... | ... | 3,60,296 5 4 | 3,60,296 5 4 | 10,890 10 1 | 3,60,030 8 5 | 3,70,921 2 6 | 10,668 2 3 | 243 5 1 |

Calcutta,

*The 5th June* 1890.

J. BRIDGNELL,

*Chief Superintendent in charge*

*Forest Account Branch.*

**Form No. 62.**

## FINANCIAL RESULTS OF THE YEAR 1889-90.

| Division | *Timber and other produce removed from the Forests by Government Agency.* | | *Other Revenue.* | | *Formation, protection and improvement of Forests.* | *Total.* | | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | Receipts. | Charges. | Receipts. | Charges | Charges. | Receipts. | Charges. | |
| | Rs | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| Hazara .. .. | 13,912 | 22,312 | 15,913 | 8,747 | 10,630 | 29,825 | 41,690 | |
| Rawalpindi .. ... | 977 | 7,004 | 80,150 | 7,030 | 9,548 | 31,127 | 23,642 | |
| Chamba .. ... | 1,42,650 | 103,937 | 2,323 | 9,306 | 17,325 | 1,44,973 | 1,30,568 | |
| Kangra .. ... | 1,25,231 | 25,473 | 19,402 | 8,720 | 9,796 | 1,44,633 | 43,998 | |
| Kulu .. ... | 21 | 18,687 | 1,604 | 4,657 | 6,402 | 1,625 | 29,746 | |
| Bashahr .. ... | 5,619 | 56,204 | 54 | 8,169 | 19,605 | 5,673 | 83,978 | |
| Jhelum ... ... | 46,272 | 16,205 | 18,726 | 6,951 | 7,651 | 64,998 | 30,867 | |
| Chenab ... ... | 73,590 | 8,970 | 1,16,753 | 7,610 | 8,489 | 1,80,349 | 24,969 | |
| Lahore ... ... | 20,059 | 18,440 | 43,522 | 7,360 | 27,577 | 72,581 | 53,377 | |
| Multan ... ... | 35,470 | 24,076 | 26,211 | 7,760 | 11,540 | 61,087 | 43,982 | |
| Montgomery ... ... | 38,158 | 52,597 | 71,828 | 3,589 | 3,518 | 1,09,986 | 59,654 | |
| Ambala ... ... | 59,317 | 22,025 | 5,917 | 5,589 | 9,304 | 65,234 | 36,918 | |
| TOTAL ... | 5,70,288 | 3,76,557 | 3,51,403 | 85,453 | 1,41,385 | 9,21,691 | 6,03,395 | |
| Direction ... ... | ... | 14,051 | 22 | 13,010 | 14,463 | 22 | 42,460 | |
| TOTAL ... | 5,70,288 | 3,90,608 | 3,51,425 | 99,390 | 1,55,848 | 9,21,713 | 6,45,855 | |
| Total for 1888-89 ... | 6,29,307 | 3,46,534 | 4,16,401 | 1,00,520 | 1,51,868 | 10,45,708 | 5,92,922 | |

# APPENDIX (A).

## STATEMENT OF ANIMALS IMPOUNDED.

| Division. | Cattle and Buffaloes. | Sheep and Goats. | Camels. | Horses and Asses. | Total. | Total of 1888-89. |
|---|---|---|---|---|---|---|
| Hazara ... ... ... ... ... ... | 950 | 1,337 | 6 | ... | 2,293 | 2,734 |
| Rawalpindi ... ... ... ... ... | 2,190 | 3,526 | 209 | 59 | 5,984 | 10,887 |
| Chamba ... ... ... ... ... | ... | ... | ... | ... | ... | ... |
| Kangra ... ... ... ... ... ... | 1,885 | 455 | ... | 48 | 2,388 | 2,483 |
| Kulu ... ... ... ... ... ... | 72 | 20 | ... | ... | 92 | 61 |
| Bashahr ... ... ... .. ... ... | ... | ... | ... | ... | ... | ... |
| Jhelum ... ... ... ... ... ... | 780 | 1,009 | 16 | 163 | 1,968 | 2,855 |
| Chenab ... ... ... ... ... ... | 1,482 | 1,100 | 321 | 59 | 2,962 | 5,238 |
| Lahore ... ... ... ... ... ... | 2,136 | 3,685 | 118 | 59 | 5,998 | 6,818 |
| Multan ... ... ... ... ... ... | 1,843 | 1,733 | 448 | 61 | 4,085 | 3,146 |
| Montgomery ... ... ... ... ... | 2,384 | 419 | 219 | 126 | 3,148 | 4,948 |
| Ambala .. ... ... ... ... ... | 226 | 148 | ... | 35 | 409 | 468 |
| Total ... | 13,948 | 13,432 | 1,337 | 610 | 29,327 | 39,638 |

# APPENDIX (B).

## STATEMENT OF IMPORTS OF TIMBER AND BAMBOOS DURING 1889-90.

| River. | Territory from which received. | Deodar logs. | Pine logs. | Other logs. | Sleepers. | Scantlings. | Bamboos and scraps | Miscellaneous timber. |
|---|---|---|---|---|---|---|---|---|
| Sutlej ... | Native State ... | 5 | 6 | 16 | 1,85,330 | 7,263 | 72,467 | ... |
| Beas .. | Mandi ... .. | ... | ... | ... | 6,374 | ... | 3,316 | 360 |
| Ravi .. | Kashmir .. .. | 3,879 | 124 | ... | 22,424 | 2,744 | 3,700 | 47,892 |
| Chenab | Do. ... ... | 778 | 4,283 | ... | 1,64,039 | ... | 22,094 | ... |
| Jhelum ... | Do. ... ... | 33 | ... | ... | 83,443 | ... | ... | 3,96,334 |
| Indus ... | Swat, Kashgar, Chinjli, &c. ... ... | 9,728 | ... | ... | ... | ... | ... | 48,925 |
| | Total ... | 14,423 | 4,413 | 16 | 4,61,610 | 10,007 | 1,01,577 | 493,511 |

# APPENDIX C.

## DRIFT TIMBER.

| Particulars. | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|
| **BALANCE IN HAND AT COMMENCEMENT OF THE YEAR** | | | | |
| *Chamba Division* | | | | |
| Deodar logs ... | 7 | ... | | |
| ,, sleepers ... | 37 | | | |
| Pine logs ... | 1 | ... | | |
| ,, sleepers ... | 13 | .. | | |
| Scraps and pieces . | 14 | .. | | |
| | | | 72 | ... |
| *Jhelum Division* | | | | |
| Deodar logs ... | 2 | 16 | | |
| ,, sleepers ... | 20 | 76 | | |
| Pine logs ... | 3 | 75 | | |
| Miscellaneous pieces | 3 | 5 | | |
| | | | 34 | 172 |
| *Chenab Division.* | | | | |
| Deodar logs ... | 8 | 155 | | |
| ,, sleepers ... | 24 | 72 | | |
| Pine logs ... | 5 | 78 | | |
| ,, sleepers ... | 1 | 3 | | |
| Scraps and pieces... | 47 | 81 | | |
| | | | 85 | 389 |
| *Ambala Division.* | | | | |
| Deodar logs ... | 8 | 40 | | |
| Scantlings ... | 44 | 132 | | |
| | | | 52 | 172 |
| **TOTAL BALANCE ...** | | | 243 | 733 |
| **RECEIPTS** | | | | |
| Received during the year. | | | | |
| Deodar logs ... | 804 | 6,253 | | |
| ,, sleepers ... | 1,723 | 2,729 | | |
| ,, beams ... | 100 | ... | | |
| Pine and other logs | 340 | 3,593 | | |
| ,, sleepers ... | 71 | 40 | | |
| Scantlings .. | 5,154 | 15,035 | | |
| Scraps and pieces | 2,716 | 5,100 | | |
| Bamboos . . | 534 | ... | | |
| ,, pieces ... | 65 | ... | | |
| | | | 11,507 | 32,750 |
| Received by transfer from Government Account. | | | | |
| Pine log ... | 1 | 17 | | |
| | | | 1 | 17 |
| **TOTAL RECEIPTS ...** | | | 11,508 | 32,767 |
| **TOTAL ...** | ... | .. | 11,751 | 33,500 |
| Total for 1888-89 | ... | ... | 3,803 | 14,044 |

| Particulars | No. or quantity. | Cubic feet. | Total of each Head. No. or quantity. | Total of each Head. Cubic feet. |
|---|---|---|---|---|
| **DISPOSALS** | | | | |
| Made over to claimants | | | | |
| Deodar logs ... | 482 | 1,511 | | |
| ,, sleepers ... | 1,231 | 947 | | |
| ,, beams ... | 100 | ... | | |
| Pine and other logs | 34 | 168 | | |
| Pine sleepers .. | 77 | 14 | | |
| Scantlings ... | 2,485 | 7,234 | | |
| Scraps and pieces | 1,252 | 1,441 | | |
| | | | 5,661 | 11,315 |
| Transferred to Government Account. | | | | |
| Deodar logs ... | 326 | 4,630 | | |
| ,, sleepers... | 190 | 588 | | |
| Pine and other logs | 314 | 3,531 | | |
| ,, sleepers ... | 8 | 29 | | |
| Scantlings ... | 839 | 2,443 | | |
| Scraps and pieces | 1,413 | 3,546 | | |
| | | | 3,090 | 14,776 |
| Wrongly transferred to Government Account | | | | |
| Pine log ... | 1 | 17 | | |
| | | | 1 | 17 |
| **TOTAL DISPOSALS ...** | | | 8,752 | 26,108 |
| **BALANCE AT THE CLOSE OF THE YEAR.** | | | | |
| *Chenab Division.* | | | | |
| Deodar logs ... | 5 | 54 | | |
| ,, sleepers .. | 25 | 76 | | |
| Pine logs .. | 3 | 19 | | |
| Scraps and pieces | 13 | 45 | | |
| | | | 46 | 194 |
| *Jhelum Division.* | | | | |
| Deodar logs ... | 8 | 220 | | |
| ,, sleepers ... | 364 | 1,266 | | |
| Pine logs | 5 | 63 | | |
| Miscellaneous pieces | 76 | 115 | | |
| | | | 453 | 1,664 |
| *Ambala Division* | | | | |
| Logs ... | 1 | 5 | | |
| Scantlings ... | 1,874 | 5,490 | | |
| Scraps and pieces | 26 | 39 | | |
| Bamboos . . | 534 | ... | | |
| ,, pieces ... | 65 | ... | | |
| | | | 2,500 | 5,534 |
| **TOTAL BALANCE ..** | | | 2,999 | 7,392 |
| **TOTAL ...** | ... | ... | 11,751 | 33,500 |
| Total for 1888-89 | ... | ... | 3,803 | 14,044 |